### **DRAFT**

### TECHNICAL REPORT ELECTROCHEMICAL GEOOXIDATION DEMONSTRATION PROJECT

E-1 Area, Kelly Air Force Base San Antonio, Texas CONTRACT NUMBER F41624-97-C-8006

### PREPARED FOR:

AIR FORCE CENTER FOR ENVIRONMENTAL EXCELLENCE
Brooks Air Force Base
San Antonio, Texas

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### MANTECH ENVIRONMENTAL CORPORATION

A ManTech International Subsidiary

February 2, 2000

Mr. Jerry Hanson AFCEE/ERT 3207 North Road, Bldg. 532 Brooks AFB, TX 78235-5361

Re:

**Draft Technical Report** 

Electrochemical Geooxidation Demonstration Project

Contract No. F41624-97-C-8006

Dear Mr. Hanson:

Enclosed please find 3 copies of the above referenced reports.

ManTech appreciates this opportunity to provide AFCEE with our services. Please call me at (713) 585-7003 if you have any questions or require additional information.

Sincerely,

Vice President

**Enclosures** 



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### 1.0 INTRODUCTION

ManTech Environmental Corporation (ManTech), has prepared this draft final technical report to document the activities and results of the ElectroChemical GeoOxidation (ECGO) pilot-scale study that has been completed at the E-1 Area, a former waste disposal area for aircraft maintenance operations at Kelly Air Force Base in San Antonio, Texas (the Site). ECGO was implemented to investigate the potential ability of the technology to degrade concentrations of tetrachloroethene, trichloroethene, 1,2-dichloroethene, vinyl chloride, chlorobenzene, benzene, and TPH in soil and as part of a remedial action at the site. ManTech served as a contractor to AFCEE and the work was performed under contract number F41624-97-C-8006.

ManTech is licensed to implement the ECGO remediation technology at U.S. commercial, industrial, and governmental sites. ECGO is an *in-situ* process that applies electrical current to electrodes driven into the ground to address a wide range of both organic and inorganic compounds in unsaturated-zone subsurface soils. ECGO has been used successfully at multiple sites in Europe to remediate soils that have contained a wide range of organic and inorganic constituents, including those compounds at the Site.

This technical report presents the details regarding design, installation, operation, and monitoring of the ECGO system at the Site. The report is divided into four sections: Section 1 presents site and project background information and an overview of the demonstration project; Section 2 presents the details of the completed technical elements of the demonstration project; Section 3 provides a summary and discussion of the soil and groundwater monitoring results used to gauge the effectiveness of the ECGO technology; and Section 4 presents conclusions and recommendations associated with the evaluation of the effectiveness of the ECGO technology as a remedial remedy for soil and groundwater contamination at the Site.

### 1.1 Site Background

A record review of historic aerial photographs and relevant documents was performed in a recent Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) that was developed by others for Kelly AFB. The RFI was performed to assist in the characterization of the disposal unit, wastes generated, and environmental setting. The information presented in the report summarized below.

♦ Before to 1943, the Site was wooded and relatively undeveloped as indicated on an aerial photograph dated September 1942. January 1943 aerial photographs (Figure 4-2) indicate initial development of the Site as an open storage area. The Kelly AFB Historic Preservation Plan lists the year of construction of Building 545 in the vicinity as 1943 and lists the building use as a cylinder reclamation facility. A November 1944 aerial photograph (Figure 4-3) provides the earliest photographic evidence of the chemical evaporation pits associated with Building 545 in the E-1 area. Pit dimensions are approximately 100 feet by 150 feet, and the pits appear to be divided roughly in half by a north-south partition.

- ♦ An aerial photograph dated July 1951 (Figure 4-4) indicates the presence of a third chemical evaporation pit, north of the first pit (closer to the former Building 545). The pit, roughly triangular in shape, was approximately 100 feet long and 50 feet wide at the widest (south) end. The first chemical evaporation pit is still present in the photo. A Report to Accompany General Master Plan dated February 1952 designates Building 545A as "Cylinder Chrome Plating," providing evidence of the activities associated with the facility.
- ◆ According to the Programmatic Environmental Impact Statement (USAF 1997), the chemical evaporation pits were closed in 1955 and filled with gravel and other fill materials. This is supported by an aerial photograph dated October 1959, which indicates an indistinct outline of the most recent pit—the only remaining evidence of the chemical evaporation pits at E-1. A March 1955 blueprint of Building 545 confirmed a change in facility operations, as all the plating equipment had been removed from the floor plan.
- ◆ Following cylinder chrome plating, facility operations at Building 545 became a warehouse supply and equipment base, according to the Existing Facility Evaluation Report (from 1970 Master Plan). A December 1972 aerial photograph (Figure 4-5) shows clearing activities and a distinct light-colored area, possibly present during construction of the asphalt parking lot currently overlying Site E-1. The 1984 USAF Real Property Inventory Detail List states the description of Building 545 as "SHP ACFT & ENG DEP" indicating use as a shop, aircraft, and engine depot. In February 1999, Site E-1 was covered by asphalt pavement and used as an equipment storage yard. Specific contaminants likely to have been managed at the Site include metals, VOCs, and SVOCs.

### 1.2 Technology Overview

This section provides a summary of the development of the ECGO process, a description of the basic principles and theory behind ECGO, summarizes the technical program, and describes the limitations of the technology.

### 1.2.1 Technical Discussion

ECGO is a patented *in situ* process that uses induced electrical current from electrodes driven into the ground to create oxidation-reduction reactions leading to complete mineralization of organic constituents present in soil and groundwater between (and laterally extending beyond) electrodes. ECGO can remediate contaminants on a continuous basis within a relatively short period, is suitable for urban and developed sites without disruption to site operations, and it eliminates long-term O&M associated with conventional remediation technologies. The ECGO process treats contaminated soil and groundwater *in situ*; therefore, it produces no waste streams that require permitting, treatment, or disposal. The technology can be used for the treatment of contamination in both unsaturated soil and saturated zone (groundwater). Sludges and process wastes containing both inorganic and organic compounds have also been treated using this technology.

The principal advantage of ECGO over other in situ technologies, aside from the absence of

secondary waste streams, is the very rapid and complete degradation action the technology produces, regardless of soil type. More conventional technologies such as soil vapor extraction and bioventing require years to produce concentration reductions of 50 to 90%, depend strongly on soil type and the volatility or biodegradability of the contaminant. However, ECGO can produce similar results in 3 to 4 months, the reason for which is explained in the remainder of this section.

Conventional technologies rely on the delivery of a fluid through the soil pore space to increase mass transfer rates; diffusion and desorption in the case of soil vapor extraction and diffusion of oxygen and carbon dioxide for bioventing. These mass transfer operations are inherently slow and increasing them is proportional to the rate at which these fluids (i.e., air, carbon dioxide, oxygen, or the vapor-phase contaminant) can be delivered or extracted. It is well documented that the low permeability of soil and its lack of uniformity (homogeneity) are the impediments to producing a substantial, uniform flow field of these fluids. ECGO does not rely on the delivery of fluids and is virtually immune to mass transfer limitations. ECGO relies on the uniform production of an electrical field, which will be created with an electrode matrix wherever soil moisture is present. The electric field, uniform even in the tightest, most impermeable portions of a stratified lithology. generates oxidants from soil moisture right at soil particle surfaces, where soil moisture and contaminants reside. The oxidants, produced at the soil interface, react with and mineralize the local organic contaminants. Although simple in concept, the theory is much more complex, and, indeed, the execution of the process as well. The theory is explained in more detail below but the details of the execution (i.e., probe placement and operating parameters) is proprietary and cannot be provided herein.

### 1.2.2 Technology Development

In 1985, P+P Geotechnik (P+P) began research on the electrochemical removal of inorganic pollutants and, in 1991, on the electrochemical mineralization of organic pollutants. There are two distinct sets of basic principles involved when using electrical current to treat inorganic and organic contaminants.

The first set of principles are electrokinetic processes. This includes electroosmosis, electrolysis, and electrophoresis, and entails the migration, enrichment, and/or precipitation of mobile heavy metal ions, complex ions, and metal colloids in an electrical field between countercharged electrodes. There are various users and patent holders of techniques that involve electrokinetic processes. (2) Research continues and there is a substantial body of literature building.

The second set of principles is based on oxidation/reduction reactions which are induced and destroy organic pollutants *in situ*. In these reactions, pollutants are mineralized into carbon dioxide and water without moving them. The technology is known in Germany as Geooxidation, and is being introduced in the U.S. as Electrochemical Geooxidation (ECGO) by ManTech Environmental Corporation. European and U.S. patents are pending. (3)

Since its development in 1991, P+P has reported successfully completed remediation at more than 25 sites in Germany, treating more than 2 million metric tons of soil. At nearly all of these sites, remedial objectives for soil were reported to have been reached in less than 90 days.

### 1.2.3 Basic Principles and Theory of ECGO

When treating organics, ECGO induces the polarization of naturally-occurring iron, magnesium, titanium, and elemental carbon surfaces in soil and rock particles. Naturally-occurring heavy metal impurities act as catalysts for the Redox reactions creating numerous microscopic anodic and cathodic, oxidative and reactive, reaction sites. Organics that are amenable to anodic mineralization degrade locally by taking an oxidative route: petroleum hydrocarbons degrade to alcohols, then to aldehydes and oxalic acids, and finally to carbon dioxide and water. Organic constituents that are amenable to cathodic mineralization degrade by taking the reductive route: chlorinated organics are reductively dehalogenated.

The remainder of this section describes in more detail the theory regarding the important elements of the ECGO process: (1) the catalytic role of soil; (2) the behavior of soil moisture and the microscopic role of electricity; and (3) the ECGO reaction sequences.

### Catalysis by Soil Minerals

For the application of ECGO, soil is considered as comprising secondary minerals originating from the weathering of solid rock and the minerals which comprise rock. The chemical composition of minerals will change during weathering. Compared to the average in the lithosphere observed by Clarke, Vinogradov has observed in soils near the surface an increase in elements such as O, Si, Ti, S, C, V, As, Mo, I, and Cd, but a decrease of elements like Al, Na, K, Mg, Mn, and F. (5)

Minerals contain impurities (from nearly the whole range of chemical elements) within a compound structure. <sup>(6)</sup> Elements such as Al, Mg, Fe, Ti, Cu, Mn, Zn, Rb, V, Ni, Co, Mo, Pt and Au appear in trace amounts ranging from 30 to 4,600 ppm. These elements and their compounds are also known catalysts. Because the soil provides almost all known catalysts and reactants, this explains in general why ECGO uses very little power. The catalysts substantially reduce the activating energy required to start and maintain chemical reactions. <sup>(7)</sup>

### The Quasi-Colloidal Model of Soils

Most soils contain water; capillary water and captive water. ECGO can be applied with a soil moisture content as low as 6%. Contrary to standard definitions used in chemistry, the water in soils contains electrolytes that induce ionic conductivity.

In soils, media with different chemical and physical properties are in contact -- soil particles with other soil particles and/or with pollutants. Contact electricity produces electrical charges at the interface, which tend to compensate each other and the system is therefore neutral at the interface.

Where soil particles and pollutants are in contact with water, contact electricity creates opposing charges. Generally, water, with a high dielectric constant, has a positive charge, and the soil/pollutant particle will have a negative charge. Surrounding this is a tightly bound cationic layer, and surrounding it is a more diffuse layer with a greater concentration of cations than anions. The

outer layer is adjacent to the bulk solution (capillary water), where cations and anions are present in equal concentrations.

This double layer structure is approximately 0.1 to 0.15 mm thick. Electrostatic forces such as Van der Waal, London and Coulomb forces attract it to the surface of the soil particle. Between the surface of the soil particle and the outer boundary of the hydrate hull there is a voltage gradient known as the Nernst Potential. This gradient between the inner hull and the bulk solution is the Zeta or Electrokinetic Potential.

Hydrology defines the layers by suction strength. The inner hull is bound to a solid or liquid surface by 15,000 - 25,000 Bar (164,000 - 362,500 psi), but when captive water becomes available to plants the outer limit of this system is a pressure of 15 Bar (220 psi). Clearly these definitions contradict each other to a certain extent. (8)

Looking beyond hydrology to the Nernst and Stern colloidal model, we do find similar principles. Recalling the significance of moisture (in the soil or as groundwater), a different model of soil can be considered for purposes of describing ECGO: namely, as a quasi-colloidal system governed by the laws of aquatic chemistry. <sup>(9)</sup>

### The Reactive System of Geooxidation

Electrochemical reactions can occur only in materials having electrical conductivity. Because soil particles, and to some extent pollutants, are defined here as having colloidal properties, they must be considered conductors as well. When a direct current of defined voltage and intensity is applied to the soil, energy is supplied to the aquatic system, inducing redox reactions at the interfaces.

Among the reactions which take place is water electrolysis. The water in soils dissociates to O<sub>2</sub>, H<sub>2</sub>, OH<sup>-</sup>, and H<sup>+</sup> ions. In subsequent ion and radical reactions, their reactive products are O, H, OH<sup>-</sup> radicals, and hydrogen peroxide. (11) In oxidation and reduction sequences supported by catalysts, these agents can convert pollutants to alcohols, then to aldehydes and organic acids, and then to CO<sub>2</sub> and water. The decomposition of large molecules (e.g., PAH, aliphatic hydrocarbons) occurs in stages, along with the progressive dehalogenation of organic compounds.

### **Conversion Sequences Related to Organic Pollutants**

To verify our field results against the standard literature, soil and groundwater samples collected from previous remediation sites have been analyzed. The observations below have been made from these data.

◆ The long molecules in aliphatic hydrocarbons break at preferred points -- e.g., C<sub>36</sub> reduced to C<sub>12</sub> or C<sub>6</sub> and probably C<sub>3</sub>. Thereafter, the hydrocarbons are oxidized in stages to alcohols, aldehydes, carboxylic acids, and finally to CO<sub>2</sub> and water. Aromatics such as toluene are first oxidized to benzyl alcohol, benzaldehyde, benzoic acid, and then CO<sub>2</sub> and water. PAHs are reduced in stages to naphthalene and monoaromatics, which are then progressively oxidized.

- Chlorinated hydrocarbons are dehalogenated in steps. For example, pentachlorophenol is progressively reduced to phenol, and then oxidized further.
- ◆ Cyanides and other nitrogen-containing compounds are hydrolyzed to acetic acid, and then oxidized to CO₂ and water. In addition, the chromatograms reveal another sequence of oxidizing cyanides and nitro- compounds to azo- and perhaps triazo- compounds. (14)

### 1.3 Overview of the Demonstration Study

ManTech implemented a pilot-scale study of the ECGO technology to demonstrate the effectiveness of ECGO to remediate soil and groundwater containing volatile and semivolatile organic constituents at the E-1 Area Site. The technical approach consisted of applying ECGO within a defined study area for a treatment period of 150 days to treat the target organic contaminants (tetrachloroethene, trichloroethene, 1,2-dichloroethene, vinyl chloride, chlorobenzene and benzene). The effectiveness of the demonstration study was evaluated by examination of the concentrations of target organic compound constituent concentrations and total petroleum hydrocarbons (TPH) at the end of the treatment period relative to the concentrations at the beginning of the treatment period. In addition, the detection and quantification of degradation products of the target organic compounds also have been examined to determine if system configuration and operating parameters were optimal.

The demonstration study for treatment of the Target Compounds, tetrachloroethene, trichloroethene, 1,2-dichloroethene, vinyl chloride, chlorobenzene, and benzene, consisted of the installation of an array of twelve electrodes connected to an above-ground ECGO power plant that was operated for a period of 150 days. ManTech sampled groundwater from six monitoring well locations within or near the treatment area and soil samples from six boring locations near these monitoring wells. Five monitoring wells were installed and sampled, and one existing well was sampled by ManTech personnel prior to design and installation of the ECGO system. Next, a geophysical survey was completed to determine the conductivity of site soils. The detailed engineering design and construction of the ECGO system was completed by ManTech with assistance from P+P Geotechnologies. Construction of the ECGO system included installation of twelve steel-plate electrodes by pile-driving methods, mobilization of the power plant, installation of wiring between the electrodes and the power plant, and wiring of the power supply to the power plant. Monitoring of the ECGO system during the 150-day operational period will be conducted by a electrical subcontractor retained by ManTech.

Groundwater sampling from the six monitoring wells, and soil sampling from six soil boring locations was completed prior to system startup, after about 50 days, after about 100 days of operation of the ECGO system, and at the completion of the treatment period (150 days of operation). One additional round of post treatment soil and water sampling was conducted approximately 150 days after the final operational samples were collected. Comparison of these sampling results and other site specific climatic factors has provided ManTech, AFCEE, and Kelly AFB personnel the opportunity to evaluate the overall effectiveness of the ECGO technology. The interim sampling data was used by ManTech personnel to monitor system progress and to avail

ManTech the opportunity to optimize the performance of the ECGO system. All soil and groundwater samples were analyzed for TPH and volatile organic compounds (VOC) using Chemron, Inc., an AFCEE-approved laboratory.

### 2.0 ECGO DEMONSTRATION STUDY ACTIVITIES

This section describes the technical elements of the ECGO demonstration study that were completed at the Site for remediation of soil and groundwater. Each of the technical elements completed are described separately below.

### 2.1 ECGO Demonstration Work Plan

ManTech prepared a draft Work Plan Report detailing the technical elements of the ECGO Demonstration Project at the Site. The report was submitted to AFCEE on April 25, 1997. The Work Plan included: details regarding the design, installation, and operation of the ECGO system; a Sampling and Analysis Plan describing the installation of additional monitoring wells and sampling and analyses of groundwater to verify the effectiveness of the ECGO treatment; a Waste Management Plan; a Quality Assurance Plan; a Site Health and Safety Plan; and a project schedule.

### 2.2 Monitoring Well Installation

Six additional monitoring wells (MW-119, MW-120, MW-121, MW-122, MW-123 and MW-124) were installed, five within and one down-gradient of the treatment area, in order to provide an adequate number of locations within and near the treatment area to sample groundwater before, during, and after treatment by the ECGO system. The monitoring wells were installed by J.E.D.I., a subcontractor to ManTech at the locations shown on Figure 1, Appendix A. These well locations were selected to better define the extent/distribution of the affected groundwater and soils within the treatment area and to provide rational locations for system progress monitoring. This progress monitoring to include groundwater analysis and geoprobe soil sampling and laboratory analyses.

The monitoring wells were installed using the specification prepared by ManTech and provided in the Work Plan. The wells are 2-inch diameter, constructed of PVC well screen and casing, and extend to approximately 30 feet below grade. They were installed using hollow-stem auger drilling techniques and the drilling was supervised and logged by a ManTech geologist. Boring logs for these well installations and well reports are provided in Appendix C.

### 2.3 ECGO System Design

ManTech, in conjunction with P+P Geotechnologies, the inventor and patent holder of the ECGO process, completed the design of the ECGO system for implementation at the Site. The design included the depth, spacing, and wiring configuration of the ECGO electrodes, and developing site-specific operating parameters (voltage and amperage) to be applied to each pair of electrodes.

The final design of the ECGO system included 12, z-shaped, sheet-pile electrodes installed to a depth of approximately 30 feet below grade. The electrodes were provided DC voltage by ECGO power plants housed in one on-site trailer. The power plants were provided electrical service by two, 100-amp circuits of 480 VAC, 3-phase power installed by the base. The locations of the electrodes and

the definition of the treatment area are shown on Figure 2 in Appendix A. The electrodes were connected to the power plants by wiring installed by a subcontractor to ManTech.

### 2.4 ECGO System Construction

Construction of the ECGO system began on January 13, 1998, with the installation of the 10 sheet pile electrodes. The electrodes were installed by Boston Towing & Transportation, Inc., a subcontractor to ManTech. The electrodes, installed by vibratory hammer techniques, were completed flush to the ground surface.

The above-grade wiring of the electrodes was completed the week of Jan 16, 1997. The wiring, #6 insulated welders cable, was placed directly on the ground surface for the electrodes within the fenced portion of the treatment area.

The trailer containing the ECGO power plants was mobilized to the Site during the week of Jan 13, 1998. The power plants were attached to the electrode wiring by a ManTech electrician. The ECGO power plants were hard-wired to the two, 100-amp circuits of 480 VAC, 3-phase electrical power by Kelly AFB representatives.

### 2.5 ECGO System Startup and Operations

The startup of the ECGO system was completed by representatives of ManTech and P+P Geotechnologies on January 20 through 24, 1998. The ECGO system operation was engaged by the gradual application of voltage to each electrode pair until a current of about 40 amps was detected by power plant instrumentation between electrode pairs. During the startup, ManTech observed no inconsistent voltage and amperage and normal soil resistivity.

After startup, the system was monitored daily to record voltage and current at each electrode pair and the ECGO system operated within normal parameters.

The daily monitoring was performed by Texas Machine Tool Maintenance, under contract to ManTech. The electrician followed a monitoring specification prepared by ManTech and competed daily monitoring log sheets that were faxed to ManTech for review. Based on these readings, adjustments to the system operating modes were made.

### 2.6 Soil and Groundwater Sampling

Evaluation of the effectiveness of the ECGO technology was accomplished by sampling and analyses of soil samples collected within the treatment area and groundwater samples collected from monitoring wells located within and just outside the treatment area. The sample locations are shown on Figure 3, Appendix A. These samples were analyzed for Target Compounds and their degradation products, gasoline (GRO) and diesel range organics (DRO), and volatile organic compounds (VOCs).

A total of six wells were sampled during the performance of the project: MW-007, MW-119, MW-120, MW-121, MW-122, MW-124. All of the wells were sampled in December, 1997, just prior to startup of the ECGO system and two subsequent times during operations of the system in April and July of 1990, after about 75 and 150 days of ECGO system operation. In September of 1998 and May 1999, all six-wells and soils were sampled subsequent to discontinuance of system operations and a flood event. The final monitoring, in May 1999 also included eight additional soil sampling locations. The results of the groundwater and soil sampling and analyses are discussed in Section 3.0 of this report.

### 2.7 ECGO Equipment Demobilization

Upon completion of ECGO system operation and the initial post-treatment monitoring event, ManTech removed and demobilized the above-ground equipment associated with the ECGO system from the Site. The electrical leads from the electrodes and the power plants were disconnected, rolled, and transferred to the trailers. The trailers that contained the leads and the ECGO power plants were loaded onto a flatbed transport vehicle and removed from the Site on April 3, 1999. Removal of the temporary fencing and sheet-pile electrodes were outside ManTech's scope of work.

### 3.0 SYSTEM PERFORMANCE EVALUATION

The criteria used to evaluate the ECGO technology performance for the treatment of chlorinated solvents and petroleum-related hydrocarbons in soil and groundwater at the Site are presented below.

- 1. ECGO System Operations issues;
- 2. Remediation system product generation;
- 3. Climatic conditions that effect system performance or contaminant behavior;
- 4. Physical characteristics of soils and groundwater during sampling events; and
- 5. Sampling program for periodic measurements of target analyte and degradation or daughter product concentration.

This section of the technical report provides a summary of these evaluation criteria that were reviewed for the treatment Site and discusses the potential influence of the criteria on the success of the demonstration project.

### 3.1 ECGO System Operations Issues Summary

Periodic system adjustments were made by a ManTech subcontractor, to ensure that the design amperage of 40 amps were maintained in each of the ECGO system circuits. The system either maintained the appropriate amperage or required only minor adjustments and hydration during the course of the system operations. No loss in power to any circuit was observed and no replacement of contacts or equipment was performed during system operations.

The system appears to have operated as designed and no negative influence from system disruptions were observed to impact the effectiveness of the system (i.e., power outages or interruptions).

### 3.2 Remediation System Product Generation

When a direct current of defined voltage and intensity is applied to the soil, energy is supplied to the aquatic system, inducing redox reactions at the interfaces. Among the reactions which take place is water electrolysis. The water in soils dissociates to O<sub>2</sub>, H<sub>2</sub>, OH<sup>-</sup>, and H<sup>+</sup> ions. In subsequent ion and radical reactions, their reactive products are O, H, OH radicals, and hydrogen peroxide. (11) In oxidation and reduction sequences supported by catalysis, these agents can convert pollutants to alcohols, then to aldehydes and organic acids, and then to CO<sub>2</sub> and water.

These reactive products of system operations and the resultant remediation product CO<sub>2</sub> can be monitored to determine and confirm their existence and relative generation rates during the operation of the system. Due to the consistency of the system operations and water consumption throughout the period of performance, in *situ* gas monitoring for these products were not performed.

In the event that these products had been monitored, demonstrating the effective generation of the reactive products and related increases in CO<sub>2</sub>, would have provided interim confirmation of the

successful operation of the technology at the Site.

### 3.3 Climatic Issues

Weather system changes and normal rainfall events are not a problem for the ECGO technology nor the contaminant distribution unless the water volume shorts the system or causes redistribution of the contaminants. The ECGO system is adjusted frequently to compensate for changes in electrical conductivity variations associated with climatic changes at the treatment Site.

Climatic conditions did not appear to affect the treatment system operations. However, a plot of the monthly rainfall at the Site, Appendix B, identified a major rainfall event that occurred at the Site in August 1998. Confirmation of this event was made by Kelly AFB personnel that confirmed that a flood event in excess of a 100-year flood had occurred at the Site, that the entire treatment area had been under water, and that the contaminated soils in the area were totally submerged.

It is likely that the August 1998 flood event affect the distribution of contamination throughout the treatment area and the migration of contamination throughout the entire soil column. The horizontal and vertical redistribution of contaminants throughout the treatment Site, could have invalidated all previous periodic sampling results. This is due to the strong possibility that concentrated areas of unidentified LNAPL and DNAPL within and outside of the treatment area would have redistributed and equilibrated across the saturated Site. In addition, as the flood waters and groundwater would have returned to normal levels, these impacted waters would have transported the newly dissolved contaminants throughout the soil matrix and into the underlying groundwater

### 3.4 Sampling Program Summary

Baseline samples, periodic progress samples, final and post final samples were collected at the Site from December 1997 to May 1999. Samples from each of the six monitoring wells, shown on Figure 2, and from each of the six soil boring locations near each well were sampled at various depths during each sampling event. During the post final sampling event, samples were collected from various depths at an additional eight soil boring locations within the treatment area. The sampling locations are shown on Figure 3. The wells included in the monitoring program, their location relative to the treatment area, and the months that they were sampled are listed below. All samples were analyzed for VOCs by USEPA Method 8260, GRO by USEPA Method 8015, and DRO by USEPA Method. The sampling was performed by ManTech personnel. Analyses were performed by Chemron Incorporated analytical laboratory in San Antonio, Texas. Soil samples also are identified by the depth to which the samples were obtained. The periodic soil samples were obtained from borings that were advanced within one foot of the previous samples.

The laboratory results for the analyses of the periodic groundwater and soil samples collected as part of the ECGO demonstration program are included in Appendices D and E, respectively. These include the target analytes that were the focus of the demonstration project, namely, tetrachloroethene, trichloroethene, 1,2-dichloroethene, vinyl chloride, and GRO and DRO.

### 3.4.1 Physical Characteristics of Samples

Groundwater and soil samples were observed for distinct traits in lithology, color or odor during the well installation and periodic soil sample collection process. No variations in lithology or observed visual traits or NAPL were noted by the ManTech field personnel in groundwater samples obtained during any sampling event at the Site. ManTech field personnel did note distinct discoloration and solvent odors in soil samples that were collected during the baseline and initial progress sampling event. These observed characteristics were supported by elevated OVM field readings of the soil column and the subsequent laboratory analyses of the samples. During the subsequent progress soil sampling event and final sampling event, the visual discoloration and solvent odor were not present.

### 3.4.2 Groundwater Analytical Results

Groundwater samples were collected by ManTech from five monitoring wells within the ECGO treatment area, MW-007, 119,120,121, and 124, and from the control well outside the treatment area, MW-122, prior to ECGO system startup in December 1997, during system operations in April and July 1998, and subsequent to discontinuance of system operations and after a flood event in September 1998 and May 1999. Groundwater and precipitation data for the Kelly AFB are presented in Appendix B. Due to the dry conditions and minimal recharge of MW 121 during the July and May sampling events, groundwater samples were not collected and analyzed for these well during those sampling events. The detailed analytical results and graphical trend presentations of these sampling events are presented in Appendix D. An evaluation of these analytical results for these analyses is presented below.

- Precipitation and groundwater elevation data confirm seasonal high levels prior to the April and September 1998 sampling events and a seasonal low prior to the July 1998 sampling event.
- ♦ Petroleum target analyte analytical results in all wells within the treatment area and MW-122 show a marked increase in GRO and TPH during the April 1998 sampling event with a consistent decrease during the ECGO system operations.
- ♦ After the August 1998 flood event, large increases in all petroleum constituents are observed in all wells in the treatment area and in MW-122.
- VOC target analyte and degradation product analytical results in all treatment area wells show an average reduction in all analyte concentrations and an overall average reduction in excess of 90% of total VOCs during the period of operation of the ECGO system. The control well MW-122 showed a relatively constant level of VOC concentrations during this same period.
- ♦ After the August 1998 flood event, up to 600% increases in concentrations of individual analytes and total VOCs were observed as compared to the treatment period low concentrations observed in July 1998. These post-flood event VOC concentrations also reflect an increase of approximately 50% above the background levels identified in the December 1997 sampling event.

♦ Vinyl chloride (VC), a primary degradation product of the target VOC analytes at the Site, concentrations were low and stable during all pre-flood sampling events. Post-flood sampling events in the treatment area wells show dramatic increases in VC concentrations.

### 3.4.3 Soil Analytical Results

Six soil samples were collected by ManTech from borings within the treatment area and one sample outside the treatment area as a control sample point. Five of the treatment area sampling locations were near the five monitoring wells within the ECGO treatment area, MW-007, 119,120,121, and 124, and from borings near the control well outside the treatment area, MW-122. An additional boring location SB 123 was located in the northwest section of the treatment areas. Samples were collected at each of these seven locations prior to ECGO system startup in December 1997, during system operations in April and July 1998, and subsequent to discontinuance of system operations and after the August 1998 flood event in September 1998 and May 1999. For each sampling event, each of the locations was given a distinct sample identification number. The listing of these sample designations are included in the Soil Analysis Appendix, Appendix D. Additional samples, SB 186 through 192, were collected within the treatment area during the May 1999 sampling event. All soil sample locations are indicated on Figure 3, Appendix A.

Samples were collected during each sampling event at each boring from three horizons. The detailed analytical results and graphical trend presentations of these sampling events are presented in Appendix E. Boring logs from each location are presented in Appendix C. An evaluation of the soil sampling observations and corresponding analytical results are presented below.

- ♦ An evaluation of the lithology of the boreholes at the Site identified a consistent shallow clay that grades to a clayey silt or sandy clay to a depth of approximately 20 feet below ground surface. The geology then becomes highly variable throughout the Site. Within the area of MW 124 and 119 and SB 123 resides a highly permeable gravel below the 20 feet bgs levels that grades to a saturated sand at depth. All other locations have a less permeable clayey sand or sandy clay to depth.
- ◆ Trends in petroleum analyses results were inconsistent during the course of the treatment at all boring locations. Borings near MWs 120 and 124 within the treatment area and near MW 122 outside the area had low levels to non-detectable concentrations of petroleum hydrocarbons at all horizons. Initial elevated levels of TPH at MW007 in both shallow and deep horizons became non-detectable during and after treatment. Increased concentrations of TPH in the 8-10 horizon and the 28-30 horizon were identified in MW 119.
- ♦ VOC analyses in soils in the boring locations near MWs 119, 124, 122, and 007 identified an average 6-fold increase in concentrations of overall target analytes and total VOCs at the 8-10 foot horizon from the baseline sampling event to the initial sampling event in April during the treatment period. This increase was followed in these borings with a subsequent consistent decrease to levels approaching non-detectable concentrations for all remaining sampling events.

These observations were consistent at all horizons.

♦ VOC analyses in soils near MWs 120 and 121 showed modest levels of low level contaminant concentrations during the treatment period. Analyses identified 100 fold increases in VOC concentrations subsequent to the treatment cycle and flood event at the Site.

### 4.0 CONCLUSIONS AND RECOMMENDATIONS

The objective of the ECGO demonstration project at the Site was to evaluate the effectiveness of the ECGO technology in reducing concentrations of target volatile organic compounds and petroleum hydrocarbons dissolved in groundwater and adsorbed to both saturated and unsaturated-zone soils. Observations made during the periodic sampling events and confirmed by the analyses of soil and groundwater samples indicated that consistent and significant reductions in concentrations of VOCs in soils occurred during the period of performance of the ECGO system in the treatment area that was followed by a dramatic increase in concentrations of VOCs during post treatment monitoring. These increases in post treatment concentrations occurred subsequent to a flood event that had saturated the area after the ECGO treatment phase had been suspended. Possible non-ECGO causes for these confirmed observations will be addressed in this section and recommendations for confirmation of these possible causes presented. The remainder of this section summarizes our conclusions derived from the groundwater and soil monitoring results, and provides recommendations for further testing to confirm the effectiveness of the ECGO.

### 4.1 Conclusions

Our conclusions concerning the observations and the effectiveness of the ECGO system for the E-1 Site contamination are summarized below.

- ♦ Consistent and significant reductions in VOC concentrations occurred during the period of performance of the ECGO system in the treatment area had to have been caused by the ECGO treatment process or by natural attenuation processes. However, natural attenuation processes normally would not cause these dramatic reductions in this short period of time, and therefore, the ECGO process is the likely cause for these reductions.
- Due to the large reductions in concentrations and the consistency throughout the Site, sampling variability is not believed to be an explanation for the data provided.
- ◆ Dramatic decreases in soil and groundwater VOC concentrations during the treatment period with a post-treatment/post-flood elevation of VC concentrations indicate that reductive dechlorination has been occurring. Again, this process could only occur due to anaerobic dechlorination or by the ECGO process.
- ♦ Soil sampling for confirmation of treatment processes provides potentially inconsistent and variable results due to the sampling process, sample processing at the laboratory, and the complex nature of the soil types with the variable distribution of the contaminants. Confirmation of the effectiveness of any treatment process should be made by monitoring the soil and groundwater for final products of the treatment process, in addition to target compound analysis. In the case of the ECGO process, monitoring for hydrogen and oxygen and carbon dioxide

should be made. In addition, confirmation that the Site is not a highly naturally reductive environment should be performed.

- No effective determination of mass removal in the treatment area was available during the treatment process, due to the limitations of the intrusive characterization procedures that were used for the variable lithology and distributions of contaminants at the Site.
- ♦ Soil samples collected after flooding occurred at the Site were of no value if the soils had become saturated due to the redistribution of NAPL and adsorbed contamination that were located within and outside of the treatment area.
- Groundwater samples collected after the flooding had occurred were only valuable for observing the concentrations of degradation products such as CO2 and VC.

In summary, ManTech believes the effectiveness of the ECGO system in remediation of target analytes within the treatment was not fully determined during this demonstration project because of the ineffective progress sampling and monitoring program that was employed. ManTech has developed recommendations for consideration by AFCEE that could provide a better evaluation of demonstration treatment programs and ECGO in particular. Our recommendations are provided in the following section.

### 4.2 Recommendations

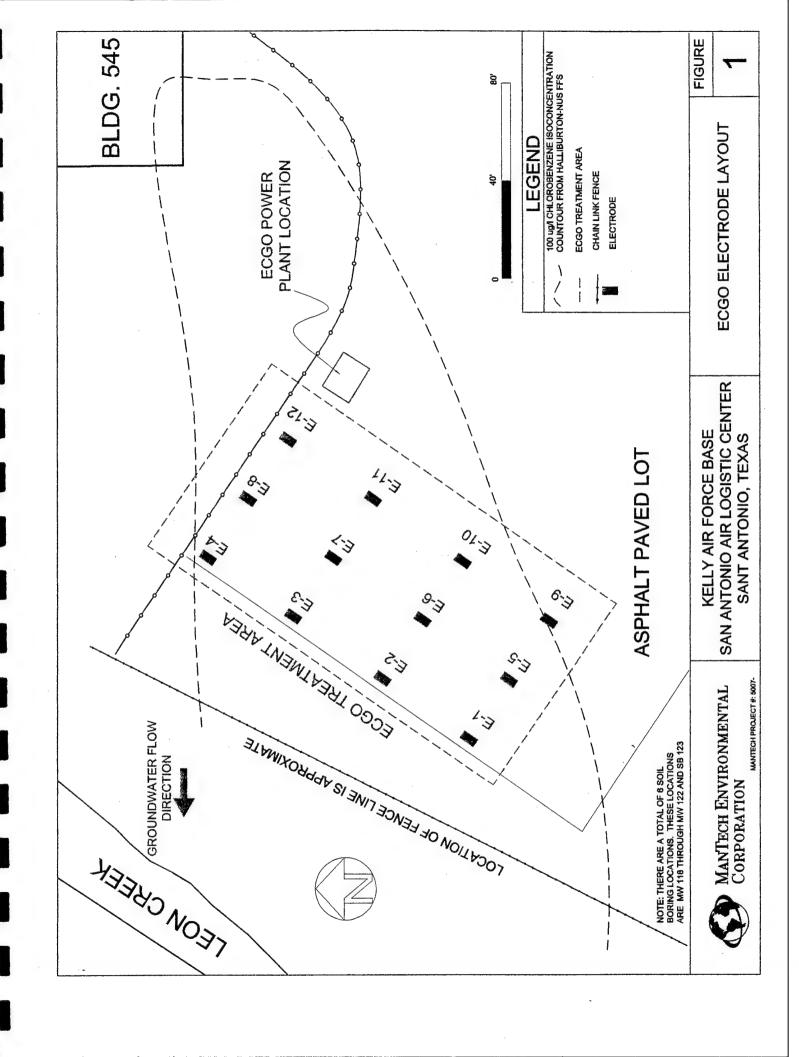
The results of the demonstration of the ECGO technology for remediation of groundwater at the Kelly AFB E-1 Site are in general encouraging, but in some cases inconclusive. ManTech makes the recommendations below for consideration in further establishing the effectiveness or ineffectiveness of the ECGO process in remediation of the target analytes at the Site.

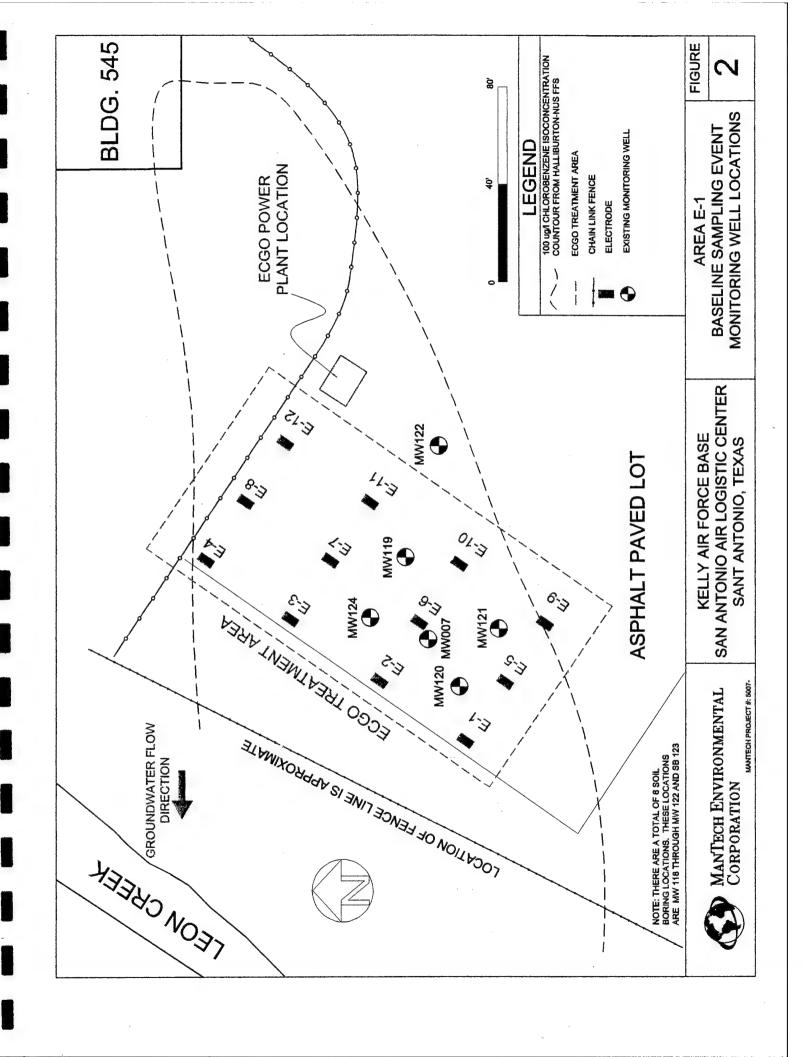
- Perform a natural attenuation evaluation of the Site including periodic monitoring of reductive products to determine whether natural attenuation could have caused the generation of the massive VC concentrations that were detected at the Site. Due to our involvement with TNRCC in the development of Monitored Natural Attenuation protocols, ManTech can provide the full range of support services to obtain this information. In addition, in the event that natural attenuation is occurring at the Site, ManTech can provide support in developing enhancements such as BioClean to accelerate the processes.
- ♦ In the event that a reductive environment does not exist at the Site or if VC production rates do not validate the observed rate of degradation product generation, conduct a further evaluation of the ECGO treatment process using in-situ continuous monitors for the production of treatment process products. ManTech offers to provide the ECGO treatment units at a reduced rental rate to perform this additional demonstration at the Site.

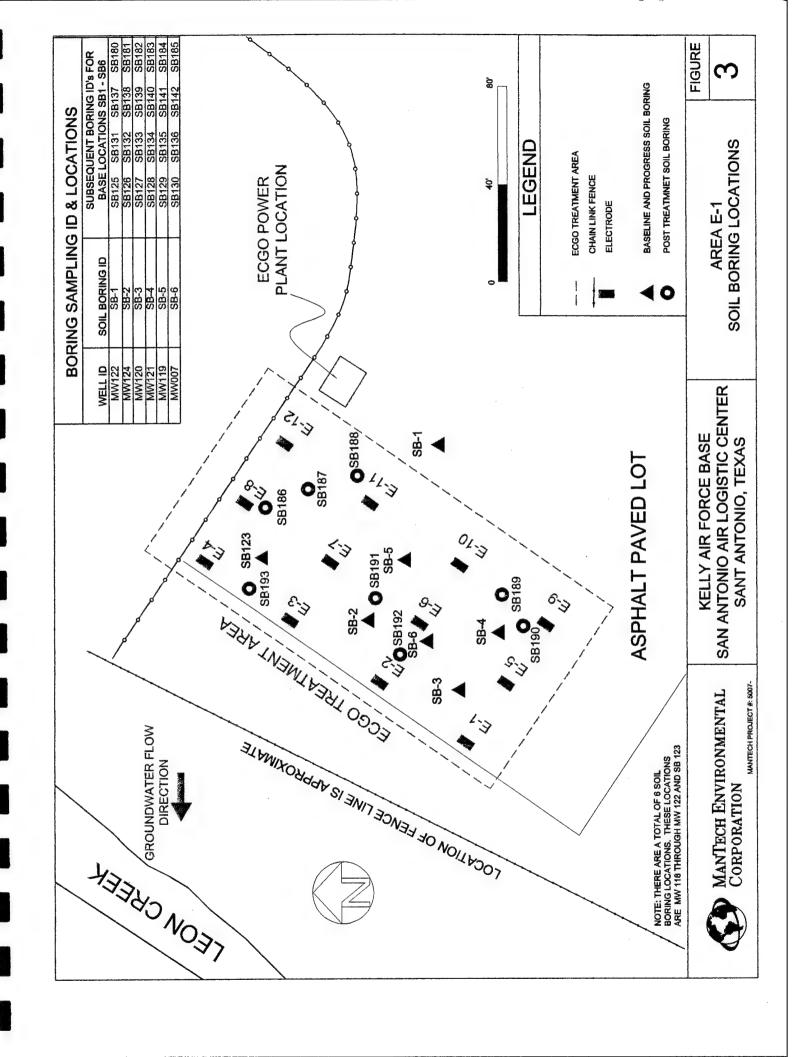
ManTech has appreciated the opportunity to evaluate the effectiveness of the ECGO technology at the Site and continues to believe that the technology with further evaluation will continue to reduce contaminant concentrations at the Site. However, without the additional data discussed above, the effectiveness of the ECGO system cannot be properly evaluated.

APPENDIX A

SITE PLANS





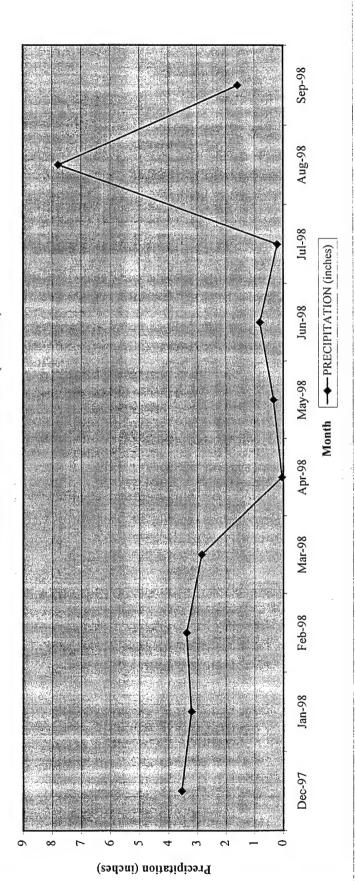


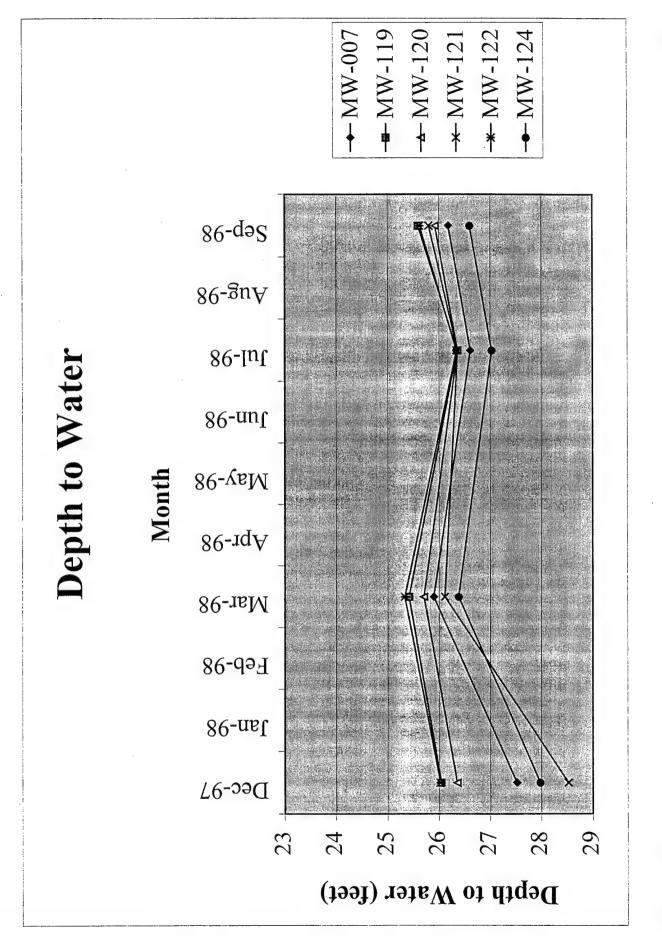
APPENDIX B
HYDROLOGY FIGURES

## Kelly AFB Average Monthly Precipitation Dec 1997- Sep 1998

| nches)                |        |        |        |        |        |        |        |        |        |        |
|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| PRECIPITATION (inches | 3.55   | 3.22   | 3.38   | 2.85   | 0.05   | 0.34   | 0.81   | 0.21   | 7.78   | 1.58   |
| DATE                  | Dec-97 | Jan-98 | Feb-98 | Mar-98 | Apr-98 | May-98 | Jun-98 | Jul-98 | Aug-98 | Sep-98 |

# PRECIPITATION (inches)





APPENDIX C
BORING LOGS

Log of Borehole: MW118 (renamed SB123)

Project: KELLY AIR FORCE BASE

Client: ACFEE

Location: SAN ANTONIO TX

Geologist: GIANNI CHERUZZI

Riser Dia: N/A

Screen Dia: N/A

Screen Slot Size: N/A

Riser Length: N/A Screen Length: N/A

Total Depth Drilled: 35'

|        |        | SUBSURFACE PROFILE   |       | S  | SAMPL   | E        | Valatila Canadia                                    |                     |              |
|--------|--------|--|-------|--|---|----------|---|---------------------|--------------|
| Depth  | Symbol | Description  | Elev. | Number   | Туре  | Recovery | Volatile Organic<br>Concentration<br>ppm<br>200 400 | Well Data           | Lab Analysis |
| ο πι m |        | Ground Surface  CLAY   | 0     |  |   |          |   |                     |              |
| 5-     |        | dark gray, little sand, some coarse gravel, moist  CLAYEY SAND dark brownish, gray, moist  CLAYEY SAND                     | -3    |  |   |          |   | -                   |              |
| 15-    | 5 /    | dark brownish, gray, sand and coarse gravel, somewhat moist color changes to beige at 18', little coarse gravel, still som |       |  | Average and the second |          | •   |                     |              |
| 25-    |        | GRAVEL gravel, green and orange glauconitic sand, some clay  | -20   |  |   |          |   |                     |              |
| 35-    | 10     | End of Borehole  | -35   | - Annual Control of the Control of t |   |          |   |                     |              |
| 40-    |        |  |       | The state of the s |   |          |   |                     |              |
| 50-1   | 15     |  |       |  |   |          |   | <u>!</u><br> <br> - |              |

Drill Date: 11/18/98

Driller: JEDI

Drill Method: HOLLOW STEM AUGER

Hole Size: 8.25"

ManTech Environmental Corp 1900 West Loop South

Suite 850

Houston, TX 77027 (713) 585-7000

Datum:

Checked by:

Project: KELLY AIR FORCE BASE

Client: AFCEE

Location: SAN ANTONIO TX

Geologist: GIANNI CHERUZZI

Riser Dia: 2"

Screen Dia: 2"

Screen Slot Size: 0.010"

Log of Borehole: MW119

Riser Length: 24.5'

Screen Length: 7.5'

Total Depth Drilled: 34.5'

|   | SUBSURFACE PROFILE   |              | S      | AMPL | E        | Valatila Carania                             |           |              |
|---|--|--------------|--------|------|----------|--|-----------|--------------|
| Depth<br>Symbol   | Description  | Elev.        | Number | Туре | Recovery | Volatile Organic<br>Concentration<br>200 400 | Well Data | Lab Analysis |
| 10-<br>10-<br>15-<br>-5<br>20-<br>25-<br>30-<br>40-<br>45-<br>50-15 | Ground Surface  SANDY CLAY dark grey, coarse sand, some decayed vegetation, moist  SANDY SILTY CLAY light brown, barely moist  coarse sand, somewhat moist  SANDY CLAY tan, moist  GRAVEL little to some tan clay, wet  SAND dark green and orange glauconitic sand, little to some clay, moist  End of Borehole | -32<br>-34.5 |        |      |          |  |           |              |

Drill Date: 11/17/98

Driller: JEDI

Drill Method: HOLLOW STEM AUGER

Hole Size: 8.25"

ManTech Environmental Corp 1900 West Loop South

Suite 850

Houston, TX 77027 (713) 585-7000

Datum:

Checked by:

Project: KELLY AIR FORCE BASE

Client: ACFEE

Location: SAN ANTONIO TX

Geologist: GIANNI CHERUZZI

Riser Dia: 2"

Screen Dia: 2"

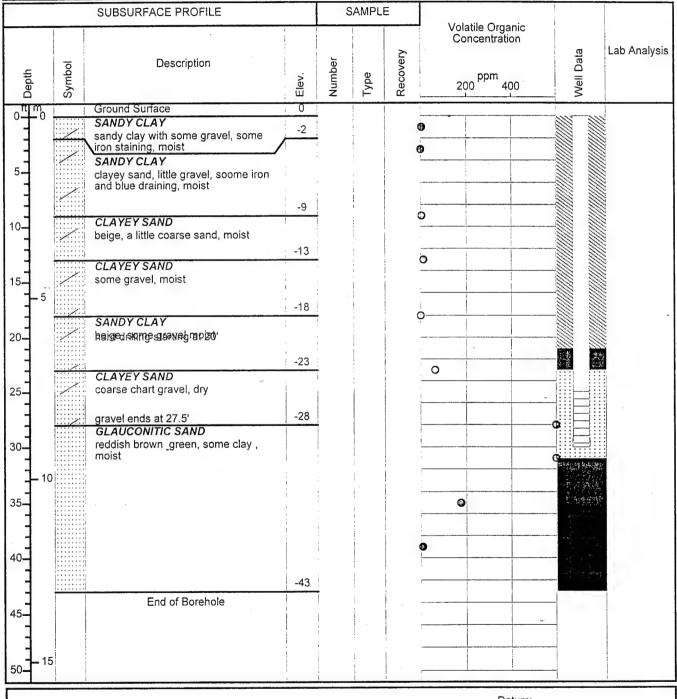
Screen Slot Size: 0.010"

Log of Borehole: MW120

Riser Length: 25'

Screen Length: 5'

Total Depth Drilled: 43'



Drill Date: 11/17/98

Driller: JEDI

Drill Method: HOLLOW STEM AUGER

Hole Size: 8.25"

ManTech Environmental Corp 1900 West Loop South

Suite 850

Houston, TX 77027 (713) 585-7000

Datum:

Checked by:

Log of Borehole: MW121 Project: KELLY AIR FORCE BASE

Client: ACFEE

Location: SAN ANTONIO

Geologist: GIANNI CHERUZZI

Riser Dia: 2"

Riser Length: 25' Screen Length: 5" Screen Dia: 2"

Screen Slot Size: 0.010"

Total Depth Drilled: 30

|       |        | SUBSURFACE PROFILE  |           | 5  | SAMPL | E  |  |           |  |  |  |
|-------|--------|---|-----------|--|-------|--|--|-----------|--|--|--|
| Depth | Symbol | Description   | Elev.     | Number                                   | Туре  | Recovery   | Volatile Organic<br>Concentration<br>ppm<br>800 1600 2400  | Mell Data |  |  |  |
| 0 m m | 1 1    | Ground Surface  | 0         |  | i     |  |  |           |  |  |  |
| 5-    |        | SILTY CLAY dark brown, little coarse sand, moist SILTY CLAY dark brown, clay and cobbles, moist | -3        |  |       |  | ▽ ▽  |           |  |  |  |
| 10-   |        | SANDY CLAY dark brown, beige, silt, slightly moist  | -8<br>-13 |  |       |  | \[ \sqrt{\sq}}\sqrt{\sq}}}}}}}}\sqrt{\sqrt{\sqrt{\sq}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}} |           |  |  |  |
| 15-   |        | CLAYEY SAND<br>some clay intervals, slightly moist  | -18       | 100 mm m m m m m m m m m m m m m m m m m |       | The state of the s | 7  |           |  |  |  |
| 20-   |        | SANDY CLAY<br>beige, some dark spots, moist   |           | -  |       |  | : -  |           |  |  |  |
| 25-   |        | at 23' gray clay, little sand, moist  |           |  |       |  | ▼  |           |  |  |  |
| 30-   |        | GLAUCONITIC SAND orange and green, some clay, somewhat moist End of Borehole                    | -30       |  |       | American de la companya de la compan | V  |           |  |  |  |
| 35-   |        |   |           |  |       | The same of the sa |  |           |  |  |  |
| 40-   |        |   |           |  |       |  |  |           |  |  |  |
| 45-   |        |   |           |  |       |  | •  | -         |  |  |  |
| 50-15 | 5      |   |           |  |       |  |  |           |  |  |  |

Drill Date: 11/18/98

Driller: JEDI

Drill Method: HOLLOW STEM AUGER

Hole Size: 8.25"

ManTech Environmental Corp 1900 West Loop South

Suite 850

Houston, TX 77027 (713) 585-7000

Datum:

Checked by:

Project: KELLY AIR FORCE BASE

Client: ACFEE

Location: SAN ANTONIO

Riser Dia: 2"

Riser Length: 25'

Geologist: GIANNI CHERUZZI

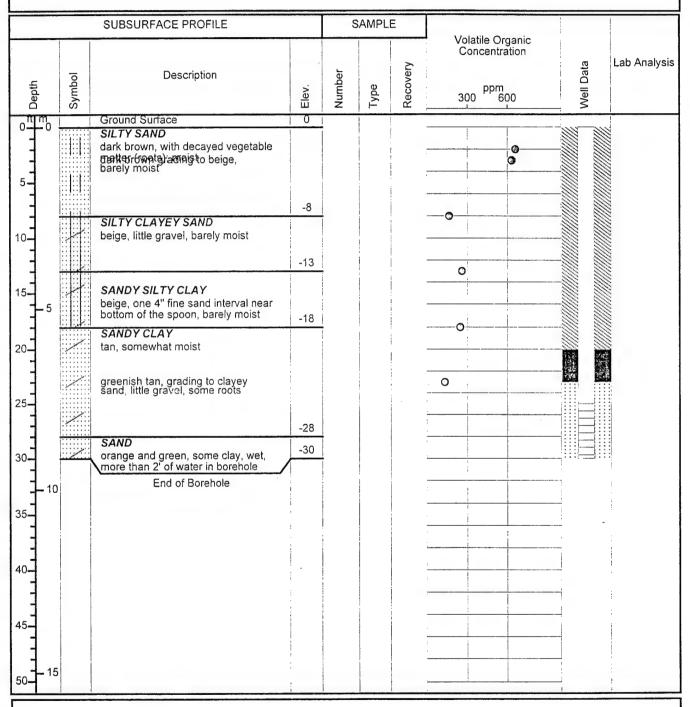
Screen Dia: 2"

Screen Length: 5'

Screen Slot Size: 0.010"

Total Depth Drilled: 30"

Log of Borehole: MW122



Drill Date: 11/18/98

Driller: JEDI

Drill Method: HOLLOW STEM AUGER

Hole Size: 8.25"

ManTech Environmental Corp 1900 West Loop South

Suite 850

Houston, TX 77027 (713) 585-7000

Datum:

Checked by:

Project: KELLY AIR FORCE BASE

Client: ACFEE

Location: SAN ANTONIO

Geologist: GIANNI CHERUZZI

Riser Dia: 2" Screen Dia: 2" Riser Length: 27' Screen Length: 5'

Screen Slot Size: 0.010"

Total Depth Drilled: 32

Log of Borehole: MW124

|          |        | SUBSURFACE PROFILE  |       | 9  | SAMPL   | E  | \\-\table \table \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ |           |             |
|----------|--------|---|-------|--|---|--|---|-----------|-------------|
| Depth    | Symbol | Description   | Elev. | Number   | Type  | Recovery   | Volatile Organic<br>Concentration<br>ppm<br>200 400     | Well Data | Lab Analysi |
| orti mo  |        | Ground Surface  | 0     |  | 1   | 1  |   |           |             |
|          |        | dark brown, some decayed vegetabl matter, moist   | -3    |  |   |  | 0   |           |             |
| 5        |        | CLAYEY SILTY SAND<br>fine sand, little gravel, moist  | -8    |  |   |  |   |           |             |
| 10-      |        | SANDY SILTY CLAY sandier at the bottom, barely moist  | -13   |  |   | ANAMANA ANAMAN TANAMAN | 0   |           |             |
| 15-      |        | CLAYEY SAND<br>tan, barely moist  |       |  |   |  | >   |           | 200         |
| 20       |        | color changes to grey<br>gravelly interval, still barely moist                                    |       |  |   |  | 0   |           |             |
| 1        | 333    | start of gravel   | -23   |  |   |  | 0   |           |             |
| 25       |        | large chart, gravel and cobbles, dry  |       | · D. C. TOO CONTRACT   |   |  |   |           |             |
| 30-      |        | large gravel, some clay, wet,<br>1' dark green and orange,<br>glaucomtic fine sand, moist<br>SAND | -30   |  |   |  | 0   |           |             |
| 4        | )      | dark green and orange glauconitic fine sand with cobbles, some clay, moist                        | -32   | -  | de la company de mandre de la company de la |  |   |           |             |
| 35-      | !      | End of Borehole   |       | Additional and the second of t | en company or company or any  |  | <u> </u>  |           |             |
| 40-<br>1 | <br>   |   |       |  |   |  |   |           |             |
| 45-      |        |   |       |  |   | 44.  |   |           |             |
| 50-15    | 5      |   |       |  |   |  | : :   | _         |             |

Drill Date: 11/18/98

Driller: JEDI

Drill Method: HOLLOW STEM AUGER

Hole Size: 8.25"

ManTech Environmental Corp 1900 West Loop South

Suite 850 Houston, TX 77027 (713) 585-7000

Datum:

Checked by:

Project: KELLY AIR FORCE BASE

Client: ACFEE

Location: SAN ANTONIO, TX

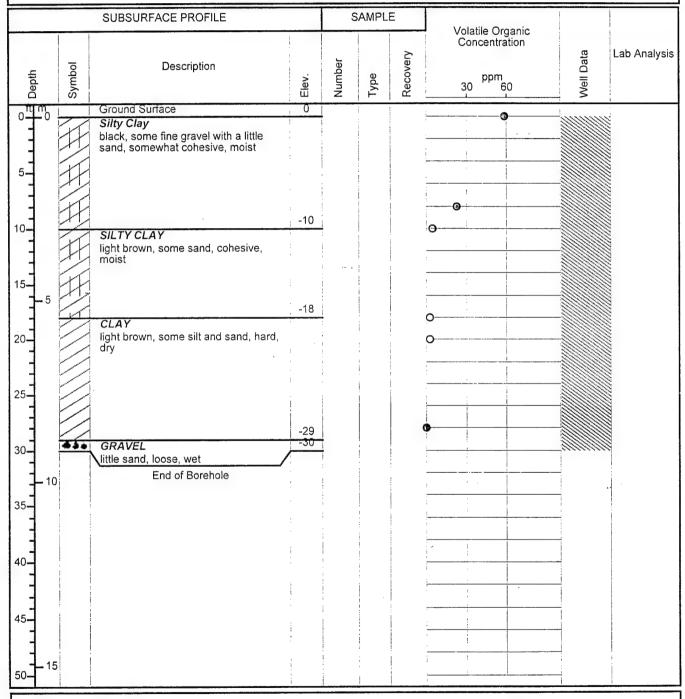
Geologist: TOM DWYER

Riser Dia: N/A Screen Dia: N/A Riser Length: N/A Screen Length: N/A

Screen Slot Size: N/A

Total Depth Drilled: 30'

Log of Borehole: SB-125



Drill Date: 4/14/98

Driller: JEDI

Drill Method: HOLLOW STEM AUGER

Hole Size: 8.25"

ManTech Environmental Corp 1900 West Loop South

Suite 850

Houston, TX 77027 (713) 585-7000

Datum:

Checked by:

Project: KELLY AIR FORCE BASE

Client:

Location: SAN ANTONIO, TX

Geologist: TOM DWYER

Riser Dia: N/A

Screen Dia: N/A

Screen Slot Size: N/A

Log of Borehole: SB-126

Riser Length: N/A Screen Length: N/A

Total Depth Drilled: 30'

|       |             |        | SUBSURFACE PROFILE  |       | S                                     | AMPL | E        | Volatile Organic<br>Concentration | 4         |              |
|-------|-------------|--------|---|-------|---------------------------------------|------|----------|-----------------------------------|-----------|--------------|
| Depth |             | Symbol | Description   | Elev. | Number                                | Type | Recovery | Concentration  ppm 2 4 6          | Well Data | Lab Analysis |
| οft   | m<br>- 0    |        | Ground Surface  | 1 0   | 1                                     |      |          |                                   |           |              |
| 5-    | •           | ##     | SILTY CLAY black, little gravel, cohesive, damp                         | -8    |                                       |      |          |                                   |           |              |
| 10-   |             |        | SILTY CLAY<br>light brown, trace fine sand, small,<br>elaylandraesesamp |       |                                       |      | 7        | 7                                 |           |              |
| 15-   | <b>~</b> 5  |        | brown, some gravel, hard, dry  SANDY GRAVEL                             | -19   |                                       |      |          |                                   | _         |              |
| 20-   |             |        | loose, dry SANDY SILTY CLAY brown, fine sand, loose, damp               |       |                                       |      |          |                                   |           |              |
| 30-   | 40          | مبر    | End of Borehole   | -30   |                                       |      |          |                                   | <b>V</b>  |              |
| 35-   | <b>-</b> 10 |        |   |       |                                       |      |          |                                   |           |              |
| 40-   |             |        |   |       |                                       |      |          |                                   |           |              |
| 45_   | <b>-</b> 15 |        |   |       | · · · · · · · · · · · · · · · · · · · |      |          |                                   |           |              |
| 50-   | - 13        |        |   |       |                                       |      |          | 1 1                               | -         |              |

Drill Date: 4/14/98

Driller:

Drill Method: HOLLOW STEM AUGER

Hole Size: 8.25"

ManTech Environmental Corp 1900 West Loop South

Suite 850 Houston, TX 77027 (713) 585-7000

Datum:

Checked by:

Project: KELLY AIR FORCE BASE

Client:

Location: SAN ANTONIO, TX

Geologist: TOM DWYER

Riser Dia: N/A

Screen Dia: N/A

Screen Slot Size: N/A

Log of Borehole: SB-126

Riser Length: N/A Screen Length: N/A

Total Depth Drilled: 30'

|  | SUBSURFACE PROFILE  |       | S      | AMPL | E        | Valatila Ossania                                  |           |              |
|--|---|-------|--------|------|----------|---|-----------|--------------|
| Depth  | Description   | Elev. | Number | Туре | Recovery | Volatile Organic<br>Concentration<br>ppm<br>2 4 6 | Well Data | Lab Analysis |
| 0 m m<br>0 m m<br>10 m<br>10 m<br>15 m<br>20 m<br>25 m<br>30 m<br>40 m<br>45 m<br>46 m<br>47 m<br>48 m | Ground Surface  SILTY CLAY black, little gravel, cohesive, damp  SILTY CLAY light brown, trace fine sand, small, elas lindraes esamp  brown, some gravel, hard, dry  SANDY GRAVEL loose, dry  SANDY SILTY CLAY brown, fine sand, loose, damp  End of Borehole | -19   |        |      |          |   |           |              |

Drill Date: 4/14/98

Driller:

Drill Method: HOLLOW STEM AUGER

Hole Size: 8.25"

ManTech Environmental Corp 1900 West Loop South

Suite 850 Houston, TX 77027 (713) 585-7000 Datum:

Checked by:

Log of Borehole: SB-127

Project: KELLY AIR FORCE BASE

Client: ACFEE

Location: SAN ANTONIO, TX

Geologist: TOM DWYER

Riser Dia: NA

Screen Dia: N/A

Screen Slot Size: N/A

Riser Length: N/A Screen Length: N/A

Total Depth Drilled: 30'

|         |        | SUBSURFACE PROFILE   |       | S      | AMPL   | E  | Volatile Organic                                  |           |              |
|---------|--------|--|-------|--------|--|--|---|-----------|--------------|
| Depth   | Symbol | Description  | Elev. | Number | Туре   | Recovery   | Volatile Organic<br>Concentration<br>ppm<br>30 60 | Well Data | Lab Analysis |
| 0 11 11 |        | Ground Surface  SILTY CLAY black, trace gravel, cohesive, damp |       |        |  |  |   |           |              |
| 5_      |        | CH TV CL AV  | -8    |        | Seminary of the seminary of th |  | 0   | -         |              |
| 10-     |        | SILTY CLAY olive, tan, fine sand, hard, dry                    | :     |        |  |  |   | -         |              |
| 15-     | 5      |  | :     |        |  |  | 0   | -<br>-    |              |
| 20-     |        |  |       |        |  |  |   | _         |              |
| 25      |        | SILTY SANDY CLAY   | -28   |        |  | # # # # # # # # # # # # # # # # # # #  | •   | -         |              |
| 30-     | 10     | ഗുക്സമുള്ള ഇwn, fine, hard, damp<br>End of Borehole            | -31   |        |  |  |   |           | ,            |
| 35      |        |  |       |        | :  | . A see  |   | ,         |              |
| 40      |        |  |       |        |  |  |   |           |              |
| 45-     |        |  |       |        |  | to the state of th |   |           |              |
| 50-     | 15     |  |       | :      | :  |  |   |           |              |

Drill Date: 4/14/98

Driller: JEDI

Drill Method: HOLLOW STEM AUGER

Hole Size: 8.25"

ManTech Environmental Corp 1900 West Loop South

Suite 850 Houston, TX 77027 (713) 585-7000

Datum:

Checked by:

Project: KELLY AIR FORCE BASE

Client: ACFEE

Location: SAN ANTONIO

Geologist: TOM DWYER

Riser Dia: N/A

Screen Dia: N/A

Screen Slot Size: N/A

Log of Borehole: SB-128

Riser Length: N/A Screen Length: N/A

Total Depth Drilled: 20'

|       |            |        | SUBSURFACE PROFILE  |       | S      | AMPL   | E        | Valatila Organia                  |           |  |
|-------|------------|--------|---|-------|--------|--|----------|-----------------------------------|-----------|--|
| Depth |            | Symbol | Description   | Elev. | Number | Туре   | Recovery | Volatile Organic<br>Concentration | Well Data | Lab Analysis   |
| 0 11  | m<br>-0    |        | Ground Surface SILTY CLAY   | 0     |        |  |          |                                   |           | !  |
| -     |            | ###    | light brown, some sand and gravel, cohesive, moist                |       |        | Very control of the second sec |          |                                   |           |  |
| 5-    |            |        |   |       |        | The second of th |          |                                   |           | The same of the sa |
| 10-   |            |        | CLAYEY SILT light brown, with fine sand, little gravel, hard, dry | -10   |        |  |          | :                                 |           |  |
| 15_   | <b>-</b> 5 |        |   |       |        | A CONTRACTOR OF THE CONTRACTOR |          |                                   |           |  |
| 20-   |            |        | End of Borehole   | -20   |        |  | , man    |                                   |           |  |
| 25_   |            |        |   |       |        |  | <u>;</u> |                                   |           |  |

Drill Date: 4/14/98

Driller: JEDI

Drill Method: HOLLOW STEM AUGER

Hole Size: 8.25"

ManTech Environmental Corp 1900 West Loop South

Suite 850 Houston, TX 77027 (713) 585-7000

Datum:

Checked by:

Project: KELLY AIR FORCE BASE

Client: ACFEE

Location: SAN ANTONIO TX

Geologist: TOM DWYER

Riser Dia: N/A

Screen Dia: N/A

Screen Slot Size: N/A

Log of Borehole: SB-129

Riser Length: N/A Screen Length: N/A

Total Depth Drilled: 30'

|  |        | SUBSURFACE PROFILE               |       | S  | SAMPL | Ε  | Valatila Canada                                     |           |              |
|--|--------|----------------------------------|-------|--|-------|--|---|-----------|--------------|
| Depth                                      | Symbol | Description                      | Elev. | Number   | Туре  | Recovery   | Volatile Organic<br>Concentration<br>ppm<br>200 400 | Well Data | Lab Analysis |
| 0 m m                                      |        | Ground Surface SILTY CLAY        | 0     |  |       |  |   |           |              |
| 5  | #      | light brown, some sand gravel    |       |  |       |  |   | -         |              |
| 10-  | #      | trace of course sand and fine    |       |  |       |  | ∇   |           |              |
| 15-  |        | ନ୍ତ୍ରୀୟ, changes to glive-brown, |       |  |       |  | ~   |           |              |
| 20—  |        |                                  |       | No. of Contract Contr |       |  | -∇  | -         |              |
| 30-  |        |                                  | -28   |  |       |  |   |           |              |
| 35-  |        |                                  |       |  |       |  |   |           |              |
| 40-  |        |                                  |       |  |       |  |   |           |              |
| 45—<br>——————————————————————————————————— | 15     |                                  |       |  |       | And the state of t |   |           |              |

Drill Date: 4/15/98

Driller: JEDI

Drill Method: HOLLOW STEM AUGER

Hole Size: 8.25"

ManTech Environmental Corp 1900 West Loop South

Suite 850 Houston, TX 77027 (713) 585-7000

Datum:

Checked by:

Project: KELLY AIR FORCE BASE

Client: ACFEE

Location: SAN ANTONIO TX

Geologist: TOM DWYER

Riser Dia: N/A

Screen Dia: N/A

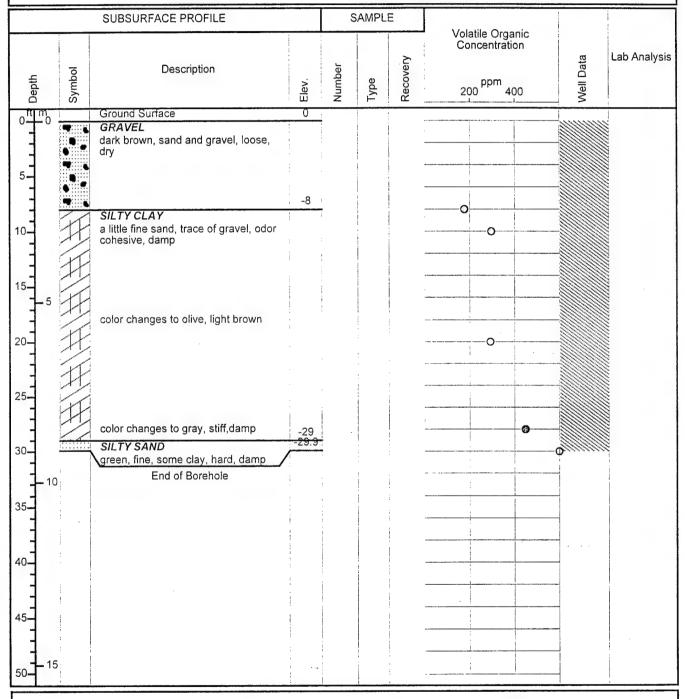
Screen Slot Size: N/A

Log of Borehole: SB-130

Riser Length: N/A

Screen Length: N/A

Total Depth Drilled: 30'



Drill Date: 4/15/98

Driller: JEDI

Drill Method: HOLLOW STEM AUGER

Hole Size: 8.25"

ManTech Environmental Corp 1900 West Loop South

Suite 850

Houston, TX 77027 (713) 585-7000

Datum:

Checked by:

Project: KELLY AIR FORCE BASE

Client: ACFEE

Location: SAN ANTONIO

Geologist: GIANNI CHERUZZI

Riser Dia: N/A

Screen Dia: N/A

Screen Slot Size: N/A

Log of Borehole: SB123

Riser Length: N/A Screen Length: N/A

Total Depth Drilled: 35'

|       |        | SUBSURFACE PROFILE  |       | o)                                      | SAMPL  | E   | Valatila Carraia                                    |           |  |
|-------|--------|---|-------|---|--|---|---|-----------|--|
| Depth | Symbol | Description   | Elev. | Number                                  | Туре   | Recovery  | Volatile Organic<br>Concentration<br>ppm<br>300 600 | Well Data | Lab Analysis                             |
| 0 m m |        | Ground Surface  | 0     |   |  |   |   |           | !  |
| 5-    |        | CLAYEY SAND dark brownish grey, moist dark grey grading to olive grey, course sand, moist | :     |   |  |   | •   | _         |  |
| 10    |        | beige, somewhat moist   |       |   |  |   | •   | _         | ינוני מינו מינו מינו מינו מינו מינו מינו |
| 15-   |        |   |       |   |  |   | 0   |           |  |
| 20-   |        | color changes to grey beige, little coarse sand   | :     | :                                       |  |   | 0   | _         |  |
| 25_   |        | orange, green glauconitic sand, some clay moist   | ·     |   |  |   | 0   |           |  |
| 30-1  |        | some clay moist   |       |   |  |   | Φ   | _         |  |
| 35-   |        | End of Borehole   | -35   | :                                       | F  |   |   |           |  |
| 40    |        |   |       | 1 P. |  |   |   | _         |  |
| 45    |        |   |       |   | The state of the s | The second control of |   |           |  |
| 50-15 | :      |   | i     |   |  |   |   |           |  |

Drill Date: 11/18/97

Driller: JEDI

Drill Method: HOLLOW STEM AUGER

Hole Size: 8.25"

ManTech Environmental Corp 1900 West Loop South

Suite 850

Houston, TX 77027 (713) 585-7000

Datum:

Checked by:

N/A

Log of Borehole: SB-186

Project: Kelly Air Force Base

Client: AFCEE

Mike Joseph

Location: San Antonio

Geologist:

Riser Dia: N/A

Screen Dia: N/A

Riser Length: N/A Screen Length: N/A

Screen Slot Size: N/A

Total Depth Drilled: 30 feet

|        |        | SUBSURFACE PROFILE   |           | 5      | SAMPL  | Ε        | Volotile Organia  |           |              |
|--------|--------|--|-----------|--------|--|----------|---|-----------|--------------|
| Depth  | Symbol | Description  | Elev.     | Number | Туре   | Recovery | Volatile Organic<br>Concentration<br>ppm<br>800 1600 2400 | Well Data | Lab Analysis |
| 0 TI M | )      | Ground Surface   | 0         | 1      |  |          |   | mann.     |              |
| 5      |        | Fill Dark gray clayey, very moist fill. Strong odor. Fill                                      | -5        | 1      |  |          | Δ.  |           | СВ           |
| 10-    |        | Light gray clayey, very moist fill. Strong odor.  Clay Reddish-brown, slightly moist.          | -7<br>-10 | 2      |  |          | Δ   |           | СВ           |
| 15—    |        | Strong odor.   |           | 3      | 1  |          | Δ   |           | СВ           |
| 20-    |        | Clay Reddish-brown, stiffer with depth and few small calcareous nodules throughout. Some odor. |           | 4      |  |          |   | -         | СВ           |
| 25     |        |  | 0.7       | 5<br>: |  |          | . Δ   | _         | СВ           |
| 30_    |        | Sand Silty, slightly moist, olive green-stained color. Strong odor.                            | -30       | 6      | · The state of the |          | Δ_  |           | СВ           |
| 1 1    | 10:    | End of Borehole  | !         |        |  | :        |   | -         |              |
| 35_    |        |  |           |        |  |          |   | ·         |              |
| 40-    |        |  |           | 1      |  |          |   |           |              |
| 45-    | 15     |  |           |        |  |          |   | T         |              |

Drill Date: 05-12-99

Driller: Best Drilling Services

Drill Method: Hollow Stem Auger

Hole Size: 8.25"

ManTech Environmental Corp 1900 West Loop South Suite 850

Houston, TX 77027 (713) 585-7000

Datum: N/A

Checked by: Mike Joseph

N/A

Log of Borehole: SB-187

Project: Kelly Air Force Base

Client: AFCEE-Kelly

Mike Joseph

Location: San Antonio

Riser Dia: N/A

Geologist: Screen Dia: N/A

Riser Length: N/A
Screen Length: N/A

Screen Slot Size: N/A Total Depth Drilled: 30 feet

|         |        | SUBSURFACE PROFILE   |            | 5      | SAMPL | E        |   | 1         |              |
|---------|--------|--|------------|--------|-------|----------|---|-----------|--------------|
| Depth   | Symbol | Description  | Elev.      | Number | Type  | Recovery | Volatile Organic<br>Concentration<br>ppm<br>800 1600 2400 | Well Data | Lab Analysis |
| 0 III M |        | Ground Surface   | 0          |        | 1     |          |   | Maan      |              |
| 5-      |        | Clay Dark gray, very moist. Strong odor.   | -5         | 1      |       |          | . 9   |           | СВ           |
|         |        | Clay Medium brown, moist. Strong odor.   | -7.5       | 2      |       |          |   |           | СВ           |
| 10-     |        |  |            |        |       |          | 0   |           | C.D.         |
| 15-     |        | Clay Reddish-brown with some dark gray mottling, slightly moist. Strong odor. Few calcareous nodules (small) throughout. Stiffer with depth. |            | 3      |       |          | · Ø   |           | СВ           |
| 20-     |        | throughout. Stiffer with depth.  | 1          | 4      |       |          | 0   |           | СВ           |
|         |        |  | -23        | . 5    |       |          |   |           | CB           |
| 25      |        | Clay Tannish-brown to gray. Strong odor.   | -29<br>-30 | 6      |       | 4        |   | <b>6</b>  | СВ           |
| 30-     | 10     | Sand Greenish colored, silty. Slightly moist. A lot of small to medium size calcareous nodules throughout. Strong odor.                      | -50        |        |       |          |   |           | 7            |
| 35—     |        | End of Borehole  |            |        |       |          |   | 7         |              |
| 40-     |        |  |            |        |       |          |   |           |              |
| 45-     |        |  |            |        |       |          |   | :<br>:    |              |
| 50-1    | 15     |  |            |        |       |          |   |           |              |

Drill Date: 05-12-99

Driller: Best Drilling Services

Drill Method: Stem Hollow Auger

Hole Size: 8.25"

ManTech Environmental Corp 1900 West Loop South

Suite 850

Houston, TX 77027 (713) 585-7000

Datum: N/A

Checked by: Mike Joseph

N/A

Log of Borehole: SB-189

Project: Kelly Air Force Base

Client: AFCEE-Kelly

Mike Joseph

Location: San Antonio

Geologist:

Riser Dia: N/A

Screen Dia: N/A

Riser Length: N/A Screen Length: N/A

Screen Slot Size: N/A

Total Depth Drilled: 30 feet.

|       |        | SUBSURFACE PROFILE  |  | S      | AMPL |          |   |           | 1                                     |
|-------|--------|---|--|--------|------|----------|---|-----------|---------------------------------------|
| Depth | Symbol | Description   | Elev.  | Number | Туре | Recovery | Volatile Organic<br>Concentration<br>ppm<br>800 1600 2400 | Well Data | Lab Analysis                          |
| 0 m   | S      | Ground Surface  | 0  |        |      | <u> </u> | 1   | >         | !                                     |
| 5     |        | Clay Dark gray, very moist caly fill with small calcarous nodules throughout. |  | 1      |      |          | 9   |           | СВ                                    |
| 10-   |        | Soft with strong odor.  | -10  | 2      |      |          |   |           | СВ                                    |
| 15_   |        | Clay Medium to dark gray. Moist with small calcareous nodules. Strong odor.   | -12  | 3      |      |          | 0   | -         | СВ                                    |
| 1-5   |        | Clay Medium to dark brown, moist, stiffer with depth. Strong odor.            | -16  | 4      |      | Account  | Y   | -         | СВ                                    |
| 20-   |        | Clay Medium brown, stiff. Slightly moist, some odor.                          |  | 5      | :    |          |   |           | СВ                                    |
| 25-   |        | Clay Olive green, stiff, slightly moist. Strong odor.                         | -27  | 6      |      |          | 0   | -         | СВ                                    |
| 30-   |        | End of Borehole   |  |        |      | -        |   | -         | · · · · · · · · · · · · · · · · · · · |
| 35_   |        |   | an indicate and the same of th |        |      |          |   |           |                                       |
| 40-   |        |   | THE REAL PROPERTY AND ADMINISTRATION OF THE PERSON OF THE  |        |      |          |   |           |                                       |
| 45    |        |   | · Yespenia del control del   |        |      |          |   |           |                                       |
| 50-15 | 5      |   | <u> </u>   |        |      |          |   | -         |                                       |

Drill Date: 5-12-99

Driller: Best Drilling Services

Drill Method: Hollow Stem Auger

Hole Size: 8.25"

ManTech Environmental Corp 1900 West Loop South

Suite 850 Houston, TX 77027 (713) 585-7000

Datum: N/A

Checked by: Mike Joseph

N/A

Log of Borehole: SB-190

Project: Kelly Air Force Base

Client: AFCEE-Kelly

Mike Joseph

Location: San Antonio

Geologist:

Riser Dia: N/A

Screen Dia: N/A

Screen Slot Size: N/A

Riser Length: N/A Screen Length: N/A

Total Depth Drilled: 30 feet.

|                                |        | SUBSURFACE PROFILE  |  | S      | AMPL   | E        |   | [         |              |
|--------------------------------|--------|---|--|--------|--|----------|---|-----------|--------------|
| Depth                          | Symbol | Description   | Elev.  | Number | Туре   | Recovery | Volatile Organic<br>Concentration<br>ppm<br>300 600 | Well Data | Lab Analysis |
| 0 tt m                         |        | Ground Surface  | 0  |        |  | 1        |   |           |              |
| 5                              |        |   |  | 1      |  |          | 9   |           | СВ           |
| 10-                            |        | Clay Dark gray, very moist. Soft with few small calcareous nodules throughout. Dark brown, very moist, soft with few calcareous nodules throughout. |  | 2      |  |          | 0   |           | СВ           |
| 15-                            |        |   | -15  | 3      | to the same and th |          |   | <b>.</b>  | СВ           |
| 20-5                           |        |   | MAN TO THE PROPERTY OF THE PRO | 4      |  |          | 0   |           | СВ           |
| 25_                            |        | Clay Medium brown to tan colored clay. Stiff. Slightly moist, strong odor.  |  | 5      |  |          | •   |           | СВ           |
| 30-                            |        |   | -30  | 6      |  |          |   |           | СВ           |
| 1 1                            | · ·    | End of Borehole   |  |        |  |          |   | j         |              |
| 35-                            | 10:    |   |  |        |  |          |   |           |              |
| 45—<br>-<br>-<br>-<br>-<br>50— | 15     |   |  |        | To be delicated to the contract of the contrac |          |   | 7         |              |

Drill Date: 05-12-99

Driller: Best Drilling Services

Drill Method: Hollow Stem Auger

Hole Size: 8.25"

ManTech Environmental Corp 1900 West Loop South

Suite 850 Houston, TX 77027 (713) 585-7000

Datum: N/A

Checked by: Mike Joseph

N/A

Log of Borehole: SB-191

Project: Kelly Air Force Base

Client: AFCEE-Kelly

Mike Joseph

Location: San Antonio

Riser Dia: N/A

Riser Length: N/A

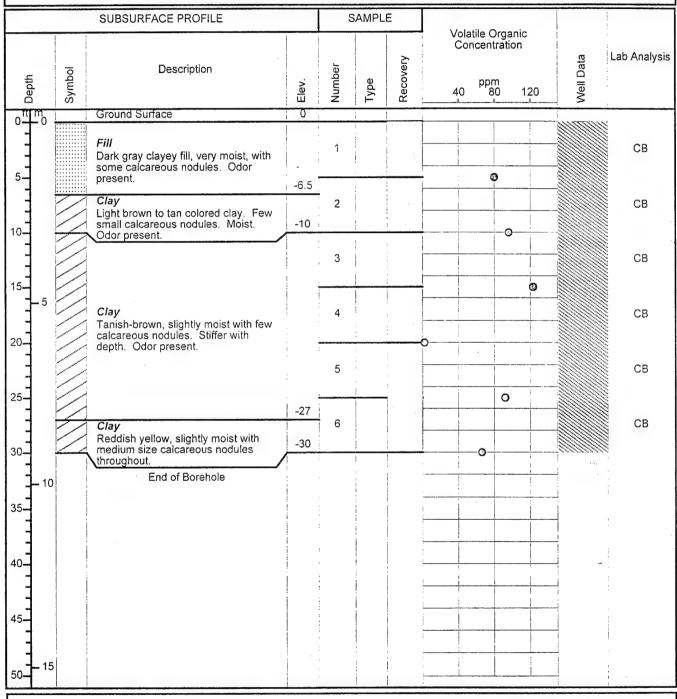
Geologist:

Screen Dia: N/A

Screen Length: N/A

Screen Slot Size: N/A

Total Depth Drilled: 30 feet.



Drill Date: 05-12-99

Driller: Best Drilling Services

Drill Method: Hollow Stem Auger

Hole Size: 8.25"

ManTech Environmental Corp 1900 West Loop South

Suite 850

Houston, TX 77027 (713) 585-7000

Datum: N/A

Checked by: Mike Joseph

N/A

Log of Borehole: SB-192

Project: Kelly Air Force Base

Client: AFCEE

Mike Joseph

Location: San Antonio
Geologist:

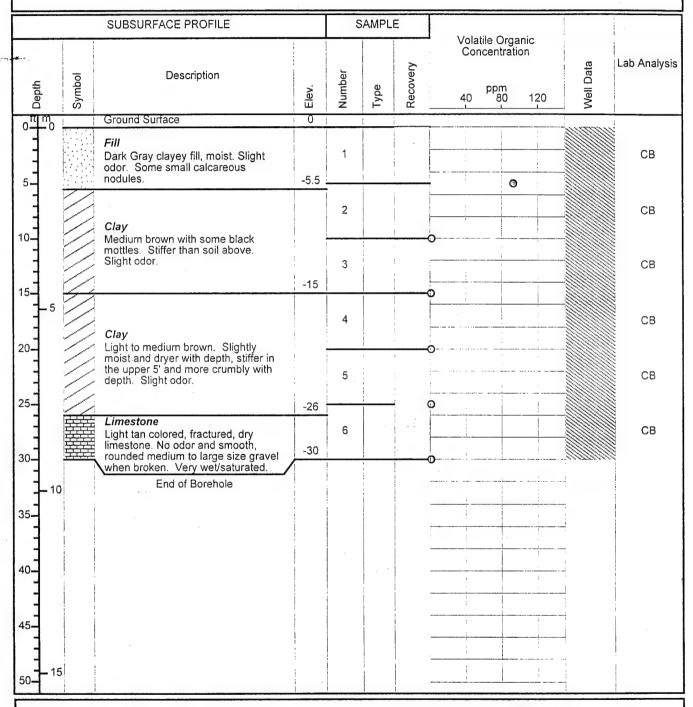
Riser Dia: N/A

Screen Dia: N/A

Riser Length: N/A Screen Length: N/A

Screen Slot Size: N/A

Total Depth Drilled: 30 feet.



Drill Date: 5-12-99

Driller: Best Drilling Services

Drill Method: Hollow Stem Auger

Hole Size: 8.25"

ManTech Environmental Corp 1900 West Loop South Suite 850

Houston, TX 77027 (713) 585-7000

Datum: N/A

Checked by: Mike Joseph

#### APPENDIX D

GROUNDWATER SAMPLING ANALYTICAL RESULTS

#### Kelly AFB E-1 Site TPH as GRO/DRO Groundwater

| Sample ID: | Date       | Matrix  | Depth | GRO       |   | DRO                                     |     |
|------------|------------|---------|-------|-----------|---|---|-----|
|            | Analyzed:  | Soil or |       |           |   |   |     |
|            |            | Water   |       |           |   |   |     |
| MW-007     |            |         |       |           |   |   |     |
|            | 12/24/1997 | water   |       | 1,900.0   | J | 300.0                                   | J   |
|            | 04/27/1998 | water   |       | 9,360.0   |   | 1,000.0                                 | J   |
|            | 07/01/1998 | water   |       | 1,600.0   |   |   | NA  |
|            | 09/02/1998 | water   |       | 770.0     |   | 700.0                                   |     |
|            | 10/28/1998 | water   |       | 31,000.0  |   | 1,800.0                                 |     |
|            | 05/11/1999 | water   |       | 1,840.0   | - | 1,000.0                                 | U   |
| MW-119     |            |         |       |           |   | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |     |
|            | 12/24/1997 | water   |       | 1,600.0   | J | 1,400.0                                 | J   |
|            | 04/27/1998 | water   |       | 9,330.0   |   | 900.0                                   | J   |
|            | 07/01/1998 | water   |       | 1,340.0   |   | 600.0                                   | J   |
|            | 09/01/1998 | water   |       | 1,810.0   |   | 1,000.0                                 | U   |
|            | 10/28/1998 | water   |       | 9,000.0   |   | 1,600.0                                 |     |
|            | 05/10/1999 | water   |       | 913.0     |   | 1,010.0                                 |     |
| MW-120     | 12/24/1997 | water   |       | 14,500.0  | Е | 2,500.0                                 | J   |
|            | 04/28/1998 | water   |       | 172,020.0 |   | 2,800.0                                 | JD  |
|            | 07/01/1998 | water   |       | 35,150.0  |   | 1,900.0                                 | J   |
|            | 09/02/1998 | water   |       | 2,440.0   |   | 20,000.0                                | U   |
|            | 10/28/1998 | water   |       | 180,000.0 |   | 5,400.0                                 |     |
|            | 05/11/1999 | water   |       | 19,600.0  |   | 4,730.0                                 |     |
| MW-121     |            |         |       |           |   | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |     |
|            | 12/24/1997 | water   |       | 94,700.0  | Е | 22,400.0                                | Е   |
|            | 04/28/1998 | water   |       | 214,020.0 |   | · · · · · · · · · · · · · · · · · · ·   | NA  |
|            | 07/01/1998 | water   |       | *         |   | *                                       |     |
|            | 09/02/1998 | water   |       | 11,200.0  |   | 135,000.0                               | U   |
|            | 10/28/1998 | water   |       | 180,000.0 |   | 57,000.0                                |     |
|            | 05/11/1999 | water   |       | 228,000.0 |   |   |     |
| MW-122     |            |         |       |           |   |   |     |
|            | 12/24/1997 | water   |       | 1,000.0   |   | 1,000.0                                 | J   |
|            | 04/27/1998 | water   |       | 22,490.0  |   | 1,500.0                                 |     |
|            | 07/01/1998 | water   |       | 1,050.0   |   | 400.0                                   |     |
|            | 09/01/1998 | water   |       | 2,270.0   |   | 1,000.0                                 | U   |
|            | 10/28/1998 | water   |       | 11,000.0  |   | 3,600.0                                 |     |
|            | 05/10/1999 | water   |       | 730.0     |   | 1,230.0                                 |     |
| MW-124     |            |         |       |           |   |   |     |
|            | 12/24/1997 | water   |       | 1,300.0   | J | 1,900.0                                 | J   |
|            | 04/27/1998 | water   |       | 12,770.0  |   | 1,800.0                                 | - 1 |
|            | 07/01/1998 | water   |       | 1,000.0   | U | 400.0                                   | J   |
|            | 09/01/1998 | water   |       | 1,900.0   |   | 1,000.0                                 | U   |
|            | 10/28/1998 | water   |       | 24,000.0  |   | 2,600.0                                 |     |
|            | 05/10/1999 | water   |       | 2,750.0   |   | 1,830.0                                 |     |

| GW Averages | 12/24/1997 | 22,800 | 5,700  |
|-------------|------------|--------|--------|
| w/o MW-122  | 04/27/1998 | 83,500 | 1,625  |
|             | 07/01/1998 | 9,523  | 967    |
|             | 09/01/1998 | 3,624  | 140    |
|             | 10/28/1998 | 84,800 | 13,680 |
|             | 05/10/1999 | 50,621 | 1,893  |

| ample ID  | Date       | Matrix           |                      | Chloro-   | Vinyl       | Bromo-   | Chloro- | Trichloro-      | Г         | Methylene | Trans.12 | 4.4 Di-  | 220       | 2000          | 1       |            | -        |           |
|-----------|------------|------------------|----------------------|-----------|-------------|----------|---------|-----------------|-----------|-----------|----------|----------|-----------|---------------|---------|------------|----------|-----------|
|           | Analyzed:  | Soil or<br>Water | difluoro-<br>methane | methane   | Chloride    | methane  | ethane  | fluoro-         | chloro-   |           |          | chloro-  | chloro-   | chloro-       | chloro- | Cinorotorm | chloro   | Carbon    |
| 700-WW    |            | -                | +                    |           |             |          |         | menane          | emene     |           | †        | ethane   | propane   | ethene        | methane |            | ethane   | Chloride  |
|           | 12/24/1997 | Ш                | 1.0 U                | 1.3       | 10 009'9    | 1.1 U    | 0.25    |                 | 289.8     |           | 2013 F   |          |           | - 1           |         |            |          |           |
|           | 04/27/1998 |                  | 1.0 U                |           |             | 1.1      |         | 0.8             |           | 5.0 B     | 210.0 &  | 840.0 &  | 3.5       | 101,000,0     | 4.0     |            | 8.4      | 2.1       |
|           | 07/01/1998 |                  | 1.0 U                | 1.3       | J 1,400 D   | 1.1 U    |         | 8.0             | 71.5      |           | 1        | 1        |           | 63,000.0      | 4.0     | 5.0        | 800      | 21        |
|           | 09/15/1998 |                  |                      | 1.3       |             |          | 1.0     |                 | 4         | 0.7       | 110.0 E  |          |           |               | 7 5     | 2 6        | 0 0      | 2.1       |
| MMA/_110  | 05/11/1999 | 9 water          | 200 O                | 650       | 8           | 550.0 U  | 500.0   | 400.0           | 0.009     | 150.0 U   | 300.0 U  | i        | 1,750.0   | 80,000.0      | 50      | 150.0 U    | 400.0    | 2.1 U     |
| 200       | 12/24/1997 | 7 water          | 0                    | ,         |             |          |         |                 |           |           |          |          |           |               |         |            |          |           |
|           | 04/27/1998 | 1                |                      | 5 6       | 1 C 624.3 E |          |         |                 |           | 0.3 U     | 35.2     | 1        | 3.5 U     | 14,890.0 DI   | 0.4     |            | 8.9      | 2.1 U.    |
|           | 07/01/1998 |                  | 1                    |           |             |          | 3.0     | 0.8             |           |           | 25.0     | 88.0 E   |           |               | 4.0     |            | 12.0     | 2.0       |
|           | 09/15/1998 | 1                | 1                    | 5 6       |             |          | 0.      | 8.0             | 44.1      | - 1       | 20.1     | 4        |           |               | 0.4     | 0.3        | 5.3      | 21 0      |
|           | 05/10/1999 |                  | 2009                 | 650       | 40.000.0 D  | 550      |         | 8:00            | 57        | 0.0       | 25.0     |          | 3.5       | 19,000.0 \$   |         | 0.3        | 5.8      | 2.1 U     |
| MW-120    |            |                  |                      | 1         |             | 1        | 2       | PO <sup>+</sup> | 000       | - 1       | 300.0    | Z00.0    | 1,750.0 U | 20,500.0 D    | 200.0   | 150.0      | 400.0 U  | 1,050.0   |
|           | 12/24/1997 | 7 water          | 50.0 U               | 65.0 U    | 6,958 Di    | 55.0 U   | 50.0    | 40.0            | 536.5     | 418 00    | 72.      | 473 5    | 475.0     |               |         |            |          |           |
|           | 04/29/1998 |                  | 1,000.0              | 1,300.0 U |             | 1,100.0  | 1,000.0 | 800.0           | 890 FD    |           | 550 0 50 | 740.0    | 3 500 0   | 333,795.0 ED! | 20.0    | 47.5       | 49.5 DE  | 105.0     |
|           | 07/01/1998 |                  | 1.0 U                |           |             | 1.1 U    | 1.0     | L               | 640 FD    | 15.9      |          | -1       |           | 340,000.0     | 400.0   | 300.0      | 270.0 FD | 2,100.0   |
|           | 09/15/1998 |                  | 1.0<br>0.5           |           |             | 1        | 1.0     | 0.8             | 230 E     |           | 190.0 E  | 300.0 E  | 3.5 U     | 1             | 4.0     | 0.3        | 36.8     | 21 0      |
| AAVV.121  | 666171700  | Malci            | - 1                  | 000       | 8           | 920 N    | 200 O   | 400             | 2,660     |           | 2,350.0  | 1,140.0  | 1,750.0 U | 394,000.0 E   | 7       | ==         |          | 1.050 0   |
|           | 12/24/1997 | 7 water          | 50.0                 | 65.0 11   | 0 996       | 0 23     | 0       |                 |           |           |          | 1        |           |               |         |            |          |           |
|           | 04/29/1998 | $\perp$          |                      | 1         |             | 1 1000   | 30.0    | 40:0            | 2,826 D   | 1,125 BD  | 253.5 D  | 799.0 D  |           | 43,625.0 D    |         | 436.5 D    | 371.0 D  | 105 0     |
|           | 07/01/1998 | L                | 1                    |           |             |          | 0.000   | 0.000           |           | 2,100 BD  | 290.0 FD |          | 3,500.0 U |               | 400.0   | 500.0      | 370.0 FD | 2,100 0   |
|           | 09/15/1998 | _                | 1                    | 1         | +-          | 2 -      |         | 2 8             | 2 000     | 200       | - 1      | SNS      | - 1       | SN            | ı       | SN         | NS       | NS C      |
|           | 05/11/1999 | L                | 200 U                | 650 U     | 12          |          | 200     |                 | 7 000,1   | 1 060     | 180.0    | 330.0    | 3.5       | ı             |         | 200.0      | 0.8 U    | 2.1 U     |
| MW-122    |            |                  | 1                    | 1         |             | 1        |         | B               | 3,100     | 1,300     | 0.65.0   | 2,120.0  | 0.067,1   | 94,000.0 D    | 200.0   | 350.0 U    | 400.0 U  | 1,050.0   |
|           | 12/24/1997 | '                |                      |           |             | 55.0 U   |         | 40.0 U          | 139.5 D   | 106.5 BD  | 41.0 D   | 156.0 D  | 175.0 U   | O 1 320 0     | 000     | 0.4        | 0 30     |           |
|           | 04/27/1998 |                  | - 1                  | 1.3 U     |             | 1.1 U    |         | 0.8 U           | 150.0 &   | 5.0 B     | 1        | 210.0 &  | 3.5       | 42,000 8      |         |            | 73.0 rD  | 0.00      |
|           | 07/01/1998 | - 1              | - 1                  | 1.3 U     |             | 1.1<br>U |         |                 | i         | 1         | 17.1     |          | 1         | 18            | 0.4     |            | 8 9      | 2110      |
|           | 09/21/1990 |                  |                      | - 1       |             | - 1      |         |                 | OO9       | 150.0 U   | 300.0 U  | O 0.009  |           | 26,305.0 D    | 200.0   |            | 400 O    |           |
| AAAA. 124 | 02/11/888  | water            | 0.c                  | 6.5 U     | 159,000.0 D | 5.5 U    | 7.9     | 4.0 U           | 98.2      | 3.6       | 465.0 D  | 152.0    | 17.5 U    | 101,000.0     |         | 1.5 U      |          | 10.8      |
| 17 - 24   | 42/34/4007 | 1                |                      | - 1       |             | - 1      |         |                 |           |           |          |          |           |               |         |            |          |           |
|           | 04/27/1998 | water            | 20.0                 |           |             |          |         | 40.0 U          | 1         | 111.0 BD  | 31.0 D   | 132.0 D  | 175.0 U   | 29,770.0 D    | 20.0    |            | 77.5 D   | 105.0 U   |
|           | 07/01/1998 | -                | 0 0                  | 2,5       | 0,400.0 G   | - 1      | 1.0     |                 | 72.0 E    | - 1       | 23.0     | 86.0 E   | 3.5 U     | 2,200.0 &     |         | 0.3 U      | 29.0     | 2.1 U     |
|           | 09/15/1998 |                  |                      |           |             |          | 0 0     | 200             | 31.3      | 0.3       | 10.8     | - 1      | - 1       | m             | 0.4 U   | 0.3 U      | 16.4     | 2.1 U     |
|           | 05/11/1999 | ſ                | 1                    | 1         | Ì           |          | 2,62    | 0 0             | 143       | 0.3       | 23.0     |          | ر ک       |               | 0.4     | 0.3 U      | 21.0     | 2.1 U     |
| EB-1      |            |                  |                      | 1         |             |          |         | 1               | 1         | -         | 108.0    | 90.06    | 3.5 U     | 9,870.0 D     | 0.4     | 1.8        | 98.9     | 2.1 U     |
|           | 04/27/1998 | water            | 1.0 U                | 1.3 U     | 1.1 U       | 1.1 U    | 1.0 U   | 0.8 U           | 1.2 U     | 0.6 B     | 0.6 U    | 0.4      | 3.5 U     | 12 11         | 118     |            | 000      |           |
| Z         |            |                  |                      |           |             |          |         |                 |           |           |          |          |           |               | 1       | 1          |          |           |
|           | 04/27/1998 | water            | 1000                 | 1 300 0   | G 200 0 D   | 0 000 7  |         | - 1             | - 1       |           |          |          |           | Ιi            |         |            |          |           |
| RB-1      |            | 1                | 1                    | 1         |             | 0.00.0   | 0.000,1 | 800.0           | 1,200.0 U | 690.0 BD  | 0.009    | 110.0 FD | 3,500.0 U | 22,000.0 D    | 400.0 U | 300.0 U    | 800.0 U  | 2,100.0 U |
|           | 07/01/1998 | water            | 1 U                  | 1.3 U     | 1.1 U       | 1.1 U    | 1.0 U   | U 8.0           | 12 11     | 8 90      | 90       | - 40     | 3.5       | 0 00          |         |            |          |           |
|           |            |                  |                      |           |             |          | ļ       |                 |           |           |          |          | 1         |               | 4.0     | 0.0        | 0.80     | 2.1 0     |
| AB-1      | 4004140004 | _                |                      |           |             |          |         |                 |           |           |          |          |           |               |         |            |          |           |
|           | 12/24/1997 | $\perp$          | 0.0                  |           |             | 1.1<br>U |         |                 |           |           | 0.6 U    | 0.4<br>U | 3.5 U     | 1.2 U         | 0.4     | 0.3        | 0.8      | 2.1       |
|           | 07/01/1008 | $\perp$          | - 1                  |           |             |          | 1.0 U   | - 1             |           | 0.6 B     |          | 0.4 U    | 1         |               |         |            |          | 2.1       |
| TR.1      | 0//01/1990 | water            | 2                    | 1.3 U     | 1.1 0       | 1.1 U    | 1.0 U   | 0.8 U           | 1.2 U     |           | 0.6 U    | 0.4 U    | 3.5 U     | 0.2 JB        | 0.4     | 7.0        | 1        | 2.1       |
| 2         | 12/24/1007 | 4                |                      | - 1       |             | - 1      | - 1     |                 |           |           |          |          |           |               |         |            | 1        |           |
|           | 04/27/1998 | water            |                      | 5 6       |             |          | 0.      | - 1             |           | - 1       |          | 0.4 U    | 3.5 U     |               | 0.4 U   | 0.3 U      | 0.8 U    | 2.1 U     |
| (WP021)   | 07/01/1998 |                  | 2 2                  | 1,5       |             |          | - 1     | 0.8             | 1.2       | 3.0 B     | 0.6<br>U |          | - 1       |               |         | 0.3 U      |          | 2.1 U     |
|           | 07/01/1998 |                  |                      |           |             | 1        |         | 0 8 0           | 1.2 0     | - [1      | 0.9      | 0.4<br>U | 3.5 U     | 0.4 JB        | 0.4 U   | 2.0        | U 8.0    | 2.1       |
| Notes:    |            | 1                | 1                    | 2         |             |          | 0.1     | 0.8.0           | 1.2 U     | 0.9 B     |          | 0.4 U    | 3.5 U     | 0.2 JB        | 0.4 ∪   | 2.4        |          | 2.1 U     |
| MOIES.    |            |                  |                      |           |             |          |         |                 |           |           |          |          |           |               |         |            |          |           |

U - The analyte was analyzed for but not detected. The associated numeric value is at or below the MDL. D - The compound was found in an analysis at at a secondary dilution factor.

F - The analyte was positively identified but the associated numerical value is below the reporting limit.

F - Concentration exceeded the califoration range of the instrument.

B - The analyte was found in the associated blank, as well as in the sample.

& - Value was obtained from a 1:1000 dilution.
NA - The analyte was not analyzed for this compound.
TB - Trip Blank
AB - Ambient Blank
EB - Equipment Blank
NS - No sample |

| Benzene -1,2-Di<br>chloro-  | 1,1-Di Benzene -1,2-Di<br>Chloro chloro-                                    | Benzene -1,2-Di<br>chloro-              |                              | Tri-<br>chloro-                         | 1             | 1,2-Di-<br>chloro- | Dibromo-<br>methane | Bromo-<br>dichloro- | Cis-1,3-<br>dichloro- | Toluene    | Trans-1,3-<br>dichloro- | 1,1,2-Tri<br>chloro- | 1-Chloro-<br>hexane | Tetra-<br>chloro- | 1,3,-Di-<br>chloro- | Dibromo-<br>chloro- |
|---|---|---|------------------------------|---|---------------|--------------------|---------------------|---------------------|-----------------------|------------|-------------------------|----------------------|---------------------|-------------------|---------------------|---------------------|
| propene ethane ethene   | propene ethane ethene   | ethane ethene                           | ethene                       | I                                       | propane       |                    |                     | methane             | propene               |            | propene                 | ethane               |                     | ethene            | propane             | methane             |
| water 1.0 U 55.5 0.6 U 9,450.0 DI 0.4 U   | 1.0 U 55.5 0.6U U 9,450.0 Di 0.4 U  | U 55.5 0.6 U U 9,450.0 D! 0.4 U         | U 9,450.0 Di 0.4 U           | 9,450.0 Di 0.4 U                        | 0.4 U         |                    | ì                   |                     | 10 0                  | 26.1       |                         |                      | - 1                 | 4.5               |                     | 40                  |
| water 1.0 U 51.0 0.6 U U 1,800.0 0.4 U  | 1.0 U 51.0 0.6U U 1,800.0 0.4 U   | U 51.0 0.6 U 1,800.0 0.4 U              | U 1,800.0 0.4 U              | 1,800.0 0.4 U                           | 0.4 U         | 1                  | 1                   | 0.8                 | 1                     | 1.1        | 1.0 U                   |                      |                     |                   | 1                   | 0.5                 |
| water 1.0 U 35.2 0.6 U 4,600.0 D 0.4 U  | 1.0 U 35.2 0.6 U 4,600.0 D 0.4 U  | U 35.2 0.6 U 4,600.0 D 0.4 U            | U 4,600.0 D 0.4 U            | 4,600.0 D 0.4 U                         | 0.4 U         |                    |                     | 0.8                 | 1.0 U                 | 1          | 1                       |                      | 1                   | 6.                |                     | 0.50                |
| 09/15/1998 water 1.0 U 25.0 0.6 U 1,300.0 E 0.4 U 05/11/1999 water 500.0 U 200.0 U 300.0 U 10,400.0 E 200.0 U 200.0 U | 1.0 U 25.0 0.6 U 1,300.0 E 0.4 U 500.0 U 200.0 U 300.0 U 10,400.0 E 200.0 U | U 2000 U 3000 U 104000 E 2000 U         | 3000 U 13000 E 0.4 U         | 1,300.0 E 0.4 U                         | 0.4<br>D 0.00 |                    | 2.4 U               | 0.8<br>0.8          | 1.0 U                 | 6.0        |                         | 12.0                 | 0.5 U               | 0.6               | 0.4                 | 0.5                 |
|   |   |   |                              |   |               | 1                  |                     | 2                   | 1                     | -          | -                       |                      | - 1                 | 0.007             | - 1                 | 250.0 U             |
| water 1.0 U 21 0.6U U 78.2 E 0.4  | 1.0 U 21 0.6U U 78.2 E 0.4  | U 21 0.6U U 78.2 E 0.4                  | U 78.2 E 04                  | 78.2 E 0.4                              | 0.4           |                    |                     | œ c                 | 107                   | 55.0       | 0,                      |                      | - 1                 |                   | - 1                 |                     |
| 1.0 U 16.0 0.6U U 9.0   | 1.0 U 16.0 0.6U U 9.0 0.4   | U 16.0 0.6U U 9.0 0.4                   | 0.6                          | 9.0 0.4                                 | 0.4           | L                  | 2.0 U               | 0.8                 | 1                     | 16.0       | 9 9                     |                      | 0.0                 | 9.4               | 4.0                 | 0.5                 |
| water 1.0 U 16.5 6.5 6.9 4.0  | 1.0 U 16.5 6.5 6.9 4.0  | U 16.5 6.5 6.9 4.0                      | 6.9                          | 4.0                                     | 1             | L                  | 1                   | 800                 | 5 5                   | 28.4       | 1                       |                      | 1                   | 0.0               | - 1                 | 0.5                 |
| U 20.0 0.6 U 12.0 0.4   | 1.0 U 20.0 0.6 U 12.0 0.4   | U 20.0 0.6 U 12.0 0.4                   | U 12.0 0.4                   | 12.0 0.4                                | 1             |                    | 1                   | 800                 | 1                     | 29.0       | 1                       |                      |                     | 7.0               | - 1                 | 0.5                 |
| water 500.0 U 200.0 U 300.0 U 500.0 U 2   | 500.0 U 200.0 U 300.0 U 500.0 U 200.0                                       | U 200.0 U 300.0 U 500.0 U 200.0         | 300.0 U 500.0 U 200.0        | 500.0 U 200.0                           | 200.0         |                    | 1 200 0             | 4000                | 2000                  | 550.0      | 20005                   | 0.003                |                     | ř                 | 4.00                | 0.00                |
|   |   |   |                              |   |               | L                  |                     |                     | 1                     | 1          | 1                       | -                    | -                   | 700.0             | - 1                 | 250.0 U             |
| 50.0 U 147.0 D 30.0 U 104,940.0 D! 20.0   | 50.0 U 147.0 D 30.0 U 104,940.0 D! 20.0                                     | U 147.0 D 30.0 U 104,940.0 D! 20.0      | 30.0 U 104,940.0 D! 20.0     | 104,940.0 D! 20.0                       | 20.0          | _                  | 120.0 U             | 40.0                | 50.0                  | 859.0 D    | 50.0                    | 75.5 D               | 0.50                | 70.0              |                     | 0 30                |
| water 1,000.0 U 280.0 FD 600.0 U 110,000.0 Bil 4  | 1,000.0 U 280.0 FD 600.0 U 110,000.0 B! 400.0                               | U 280.0 FD 600.0 U 110,000.0 B! 400.0   | 600.0 U 110,000.0 B! 400.0   | 110,000.0 B! 400.0                      | 400.0         | L                  | 2 400 0             | 800.0               | 1 000 0               | 960 FD     | -                       | 1                    | 1                   | 1000              | 20.0                | 75.0 0              |
| water 0.1 F 150.0 JD 0.6 U 7.600.0 DI 0.4   | 0.1 F 150.0 JD 0.6 U 7.600.0 DI 0.4   | 150.0 JD 0.6 U 7.600.0 D! 0.4           | 0.6 U 7.600.0 D! 0.4         | 7.600.0 DI 0.4                          | 0.4           | L                  | 1                   | α<br>C              | 1                     | 330.0 10   |                         | -                    | 1                   |                   | - 1                 | 0.000               |
| water 1.0 U 110.0 E 0.6 U 45,000.0 i 0.4  | 1.0 U 110.0 E 0.6 U 45,000,0 I 0.4  | U 110.0 E 0.6 U 45,000,0 i 0.4          | 0.6 U 45,000,0 1 0.4         | 45,000.0                                | 0.4           | L                  | 24 1                | 800                 | 1                     |            | 0 0                     |                      | - 0                 | 0.1               | 4.0                 | 0.5                 |
| 200.0 U 300.0 U 57.800.0 E 200.0  | 500.0 U 200.0 U 300.0 U 57.800.0 E 200.0 U                                  | U 200.0 U 300.0 U 57.800.0 E 200.0 U    | 300.0 U 57.800.0 E 200.0     | 57.800.0 E 200.0                        | 200 0 11      |                    | 1 200 0 1           | 4                   | 2000                  | 0.000      | 0.00                    | 3.00                 | 0.00                |                   | 4: 0                | 0.00                |
|   |   |   |                              |   |               |                    |                     | 0.00                | 1                     |            | ш                       | - 1                  | - 1                 | 0.007             | 450.0 U             | 250.0 U             |
| water 50.0 U 504.0 D 105.0 D 497.875.0  | 50.0 U 504.0 D 105.0 D 497 875.0 DI   | U 504.0 D 105.0 D 497.875.0 DI          | 105.0 D 497.875.0 DU         | 1G 0 278 78                             | L             |                    | 120.0               | -                   | 0.03                  | E 226 E ED | C                       |                      | 0                   |                   |                     |                     |
| water 1,000.0 U 550.0 D 600.0 U 57,000 Bit 400.0 U  | 1,000,0 U 550,0 D 600 U 57,000 BI 4000 U                                    | U 550.0 D 600 U 57 000 BM 4000 U        | 600 0 U 57 000 BY 400 U 1    | 57 000 Bt 400011                        | 400011 11 2   | ,                  | 1                   | 0.00                | 0000                  | 3,336.3 ED | 2000                    | 0.100                | 75.0 U              | 80.5<br>D         | 20.0                | 25.0 U              |
| SN SN SN  | SN SN SN  | SN                                      | SN                           | O VZ                                    | N             | į                  | No.                 | No.                 | 1                     | 9,700.0    | 0.000,-                 | 0.080                | 200.0               |                   | 4                   | 200.0<br>0          |
| water 1.0 U 620.0 E 0.6 III 480.000 -   | 1.0 U 620.0 E 0.6 III 480 000 I   | U 620.0 E 0.6 11 480 000 1              | 0.6 11 480 000 0 1 0.0       | 480 000 0                               | 1             |                    | 2 5                 | 1                   | 1                     | 00000      | -1                      |                      | - 1                 | S                 | - 1                 | NS                  |
| water 500.0 U 200.0 U 300.0 II 491.000.0 II   | 500.0 U 200.0 U 300.0 U 441.000.0 D   | U 200.0 U 300.0 U 441.000 D             | 300 0 11 494 000 0 0 000     | 491 000 0 0 000 11                      | 0000          | 1 2                | 1                   | 0.00                | 0 - 0                 | 3,200.0    | 0.00                    | 2000                 | 0.5                 |                   | 0.4 U               | 0.5 U               |
|   |   |   |                              |   |               | 1                  | -                   | 1                   | н                     | 9,010.6    | 0.000                   | 240.0                | 720.0               | 0.007             | 450.0 U             | 250.0 U             |
| water 50.0 U 34.0 D 30.0 U 1.077.0 DI 20.011  | 50.0 U 34.0 D 30.0 U 1.077.0 DI 20.011 11                                   | U 34.0 D 30.0 U 1.077.0 DI 20011 11     | 30.0 U 1.077.0 DI 20.011 III | 1.077.0 Di 20.011                       | 20 011 11     |                    | 120.0               | 40.0 11             | 50.0                  | 476 F      | 0.03                    | 0 00                 | ı                   |                   | - 1                 |                     |
| 1.0 U 37.0 11.0 3.800.0 B& 0.4 U U  | 1.0 U 37.0 11.0 3.800.0 B& 0.4 U U  | U 37.0 11.0 3.800.0 B& 0.4U U           | 11.0 3.800.0 B& 0.4 U U      | 0.40                                    | 0.40          |                    | 1                   | 1                   | 1                     |            | 200                     | 2.00                 | 20.02               | 0.0/              | 20.0                | 25.0                |
| water 1.0 U 17.8 0.6 U 22.5 0.4   | 1.0 U 17.8 0.6 U 22.5 0.4   | U 17.8 0.6 U 22.5 0.4                   | U 22.5 0.4                   | 22.5 0.4                                | 0.4           | l                  | 1                   | 1                   | 2 0                   | 2500       |                         | 2.5                  |                     | 1                 | - 1                 | 0.5                 |
| U 300.0 U 1,825.0 D 200.0 U   | 500.0 U 200.0 U 300.0 U 1.825.0 D 200.0 U                                   | U 200.0 U 300.0 U 1.825.0 D 200.0 U     | 300.0 U 1.825.0 D 200.0 U    | 1,825.0 D 200.0 U                       | 200.0 U       | 1                  | 1                   |                     | 1                     | ı          | -                       |                      | 250.0               | - C               | 4.00                | 0.0                 |
| water 5.0 U 46.2 7.0 7.1 20 U   | 5.0 U 46.2 7.0 7.1 2.0 LI   | U 46.2 7.0 7.1 2.0 U                    | 7.1 20 11                    | 7.1                                     | 20 11         | 1                  | 12.0 11             | -                   | 1                     | - 1        | -1                      | 0.000                | - 1                 |                   | - 1                 | 0.062               |
|   |   |   |                              |   | ,             | ı                  | - 1                 | Ł                   | -                     | -1         | 1                       | -1                   | 7.5 U               | 0.7               | 4.5 U               | 2.5 U               |
| water 50.0 U 20.0 U 30.0 U 30.0 U   | 50.0 11 200 11 300 11   | 10 200 11 300 11 4840 11 2001           | 30.0 III 484.0 DI 20011      | 10 00                                   |               | - 1                | - 1                 | - 1                 | - 1                   | - 1        | - 1                     |                      | - 1                 | - 1               |                     |                     |
| 10 11 240 40 400 11 20.00   | 10 11 210 200 0   | 240                                     | 20.02                        | 20.00                                   |               |                    | 0.021               | 0.04<br>0.00        | 20.0                  | 85.5 D     | - (                     | 50.0 U               | ĺ                   |                   |                     | 25.0 U              |
| water 1.0 0 21.0 10 25.0 0.4 0  | 10 0 25.0 0.40  | 25.0 0.40                               | 26.0 0.4 0                   | 0.40                                    | -             |                    | - 1                 | - 1                 | 1:0                   | - 1        | - 1                     | 12.9                 | 1                   | 0.9 F             | 0.4 U               | 0.5 U               |
| 0.0   | 9.9   | 0.4                                     | <b>b</b> ./ 0.4              | 0.4                                     | - 1           |                    | 2.4 U               | 0.8                 | - 1                   | - 1        | 1.0 U                   | 5.7                  | 0.5 U               | 1.4 U             | 0.4 U               | 0.5 U               |
| Water 1.0 U 16.0 12.0 5.5 0.4   | 12.0 0 15.0 0.4   | 12.0 5.5 0.4                            | 5.5 0.4                      | 0.4                                     | - 1           | - 1                | - 1                 |                     | - 1                   | 130.0 E    | 1.0 U                   | 12.0                 | 0.5 U               | 1.4 U             | 0.4 U               | 0.5 U               |
| water 1.0 U   | 1.0 0 51.0 15.9 8.2   | 0 51.0 15.9 8.2                         | 8.2                          |   | 6.0           |                    | 2.4 U               | 0.8 U               | 1.0 U                 | 305.0 D    | 4.9                     | 11.5                 | 0.5 U               | 1.4 U             |                     | 0.5 U               |
|   |   |   |                              |   |               |                    |                     |                     |                       | ı          |                         |                      |                     |                   |                     |                     |
|   |   |   |                              | 5                                       |               |                    | 2.4                 | 0.0                 | 0                     | 0          | 0.0                     | 1.0 U                | 0.5 U               | 1.4 U             | 0.4<br>U            | 0.5 U               |
|   |   |   |                              |   |               |                    |                     |                     |                       |            |                         |                      |                     |                   |                     |                     |
| 04/27/1998 water 1,000.0 U 400.0 U 600.0 U 460.0 BD 400.0 U U 2   | 1,000.0 U 400.0 U 600.0 U 460.0 BD 400.0 U                                  | U 400.0 U 600.0 U 460.0 BD 400.0 U      | 600.0 U 460.0 BD 400.0 U     | 50.0 BD 400.0 U                         | =             | 1                  | 2 400 0 11          | 800.0               | 1000                  | 1 1000     | 1 000 0                 | 1 000 0              | 17                  |                   | 0.007               | 0.002               |
|   |   |   |                              |   | +             | 1                  | 1                   | 1                   | ı                     | 1          |                         | 0.000,               | 0.000               | 1,400.0           | 400.0               | 0.000               |
| 07/01/1998 water 1.0 U 0.4 U 0.6 U 0.2 J 0.4 U  | 1.0 U 0.4 U 0.6 U 0.2 J 0.4   | 0.4 U 0.6 U 0.2 J 0.4                   | 0.6 U 0.2 J 0.4              | J. 0.4                                  | 1             |                    | 24 U                | L 5.0               | 101                   | 11         | 10                      | 0 +                  | 30                  | 1                 |                     | 90                  |
|   |   |   |                              |   | 1             |                    |                     |                     |                       |            | 2                       | 2                    | 2                   | 7.                | 4.0                 | 0.0                 |
|   |   |   |                              |   |               | ı                  |                     |                     |                       |            |                         |                      |                     |                   |                     |                     |
| 10 U 04 III 06 III 10 III   | 10 U 04 III 06 III 10 III   | U 04 III 06 III 0411                    | 1 00                         |   | 1             |                    | -                   | 1                   |                       |            | - 1                     | - 1                  | - 1                 | - 1               | - 1                 |                     |
| Water 10 11 04 11 06 11 40 11 041   | 10 11 00 11 00 11 00 11 00  | 2 | 1 200                        | 2 | -             |                    | 7.4                 | -                   | 1                     | 1          | -1                      | - 1                  | - 1                 |                   | - 1                 | 0.5 U               |
| 0.00  | 0.00  | 0.4.0                                   | 0.40                         | 0.40                                    | - 1           | 1                  | H                   |                     | - 1                   | -          | 1.0 U                   | - 1                  | 0.5 U               | 1.4 U             |                     | 0.5 U               |
| U 0.4 U 0.6 U   | U U.4 U U.5 U 0.3 J 0.4   | 0.4 U U.B U 0.3 J 0.4                   | 0.5 U 0.3 JI 0.4             | 0.3 J 0.4                               |               |                    | 2.4 U               | 9.0<br>F            | 1.0<br>U              | J. C       | 1.0 U                   | 1.0 U                | 0.5 U               | 1.4<br>U          | 0.4<br>U            | 0.5 U               |
|   |   |   |                              |   |               |                    |                     |                     |                       |            |                         |                      |                     |                   | 1                   |                     |
| water 1.0 U 0.4 U 0.6 U 1.0 U 0.4 U   | 1.0 U 0.4 U 0.6 U 1.0 U 0.4 U   | U 0.4 U 0.6 U 1.0 U 0.4 U               | 0.6 U 1.0 U 0.4 U            | U 0.4 U                                 |               | 1                  | 2.4 ∪               | 0.8                 | 1.0 U                 | 1.1 0      | 10 0                    | 101                  | 20                  | 14 11             | 11 70               | 30                  |
| 1.0 U 0.4 U 0.6 U 1.0   | 1.0 U 0.4 U 0.6 U 1.0 U 0.4 U   | U 0.4 U 0.6 U 1.0 U 0.4 U               | U 0.6 U 1.0 U 0.4 U          | U 0.4 U                                 | 1             | 1                  | 2.4 ∪               | 1                   |                       | 11         | 10 11                   | 10                   | 1                   |                   |                     | 0.00                |
| water 1.0 U 0.4 U 0.6 U 0.3 J 0.4   | 1.0 U 0.4 U 0.6 U 0.3 J 0.4   | U 0.4 U 0.6 U 0.3 J 0.4                 | U 0.6 U 0.3 J 0.4            | J 0.4                                   | ı             |                    |                     | 0.8 U               |                       | 1          | 10                      |                      | 0.5                 |                   |                     | 200                 |
| U 0.4 U 0.6 U 10 II 0.4 II  | 1.0 U 0.4 U 0.6 U 10.1  | U 0.4 U 0.6 U 10 II 0.4 II              | 0.6 U 1.0 U 0.4 U            | 0411                                    | 0.4.11        | ł                  | 2411                |                     | 1=                    | =          |                         | 2 5                  | -                   | 1                 | *                   | 0.0                 |
|   |   |   |                              |   | )             | 1                  | 2.1.0               | 0.00                | 0.0                   | 0.1.1      | 0.0                     |                      |                     | 4.                |                     | 0.5                 |

Notes:

Or The analyte was analyzed for but not detected. The associated numeric value is at or below the MIDL.

D. The compound was found in an analysis at at a secondary dilution factor. If a the compound was positively identified but the associted numerical value is below the reporting limit.

E. Concentration exceeded the calibration range of the instrument.

B- The analyte was found in the associted blank, as well as in the sample.

I - Value was obtained from a 1:25,000 dilution

- Value was obtained from a 1:1000 dilution.

NA - The analyte was not analyzed for this compound.

NS - No sample

| Weight         Cold of State         Cold of State </th <th>Sample ID:</th> <th>Date<br/>Analyzed:</th> <th>Matrix</th> <th>1,2-Di-<br/>bromo-</th> <th>Chloro-<br/>benzene</th> <th>1,1,1,2-Tetra</th> <th>Ethyl-</th> <th>m,p-xylene</th> <th>o-xylene</th> <th>Styrene</th> <th>Bromoform</th> <th>Isopropyl-</th> <th>Bromo-</th> <th>1,1,2,2-</th> <th>1,2,3-Tri</th> <th></th> <th>2-Chloro-</th>  | Sample ID: | Date<br>Analyzed: | Matrix | 1,2-Di-<br>bromo- | Chloro-<br>benzene | 1,1,1,2-Tetra | Ethyl-      | m,p-xylene | o-xylene | Styrene  | Bromoform | Isopropyl- | Bromo-  | 1,1,2,2-    | 1,2,3-Tri   |         | 2-Chloro- |
|--|------------|-------------------|--------|-------------------|--------------------|---------------|-------------|------------|----------|----------|-----------|------------|---------|-------------|-------------|---------|-----------|
| 12241199  water   0.6 U   10.00   0   |            |                   |        | ethane            |                    | ethane        | al logillar |            |          |          |           | penzene    | penzene | Tetrachioro | chloro      | penzene | toluene   |
| 1,224,1950   water   0.5   0   | N-007      |                   | -      |                   | ı                  |               |             |            |          |          |           |            |         | Culand      | proparie    |         |           |
| 10047771999   Water   0.55   V   500   0.55   V   500   0.55   V   500   V   |            | 12/24/1997        | water  | il                |                    |               |             | 8.1        | 3.6      | 1        | 1.2 U     | 4.3        | 1       | 0.4         | 3.2         |         | 0.4       |
| 1000/11/1999   water   0.05   0. 40.1   0.05   0. 40.1   0.05   0. 40.1   0.05   0. 40.1   0.05   0. 40.1   0.05   0. 40.1   0.05   0. 40.1   0.05   0. 40.1   0.05   0. 40.1   0.05   0. 40.0   0. 50.0   0. 50.0   0   |            | 04/27/1998        | water  | - 1               |                    |               |             | 4.0        | 2.0      | 0.4 U    | 1.2 U     | 3.0        | 1       | 0.4         | 3.2 U       |         | 0.4       |
| 13   13   14   15   15   15   15   15   15   15  |            | 07/01/1998        | water  |                   |                    |               | 9.0         | 1.5        | U 7.0    | 0.4 U    |           | 1.1        | 1       | 0.4         | 3.2         | J 0.2 J | 0.4       |
| 1,224/1999   water   3000   1,1800   0   2500   1   310   310   10   550   0   550   0   550   0   550   0   |            | 09/15/1998        | water  |                   | 23.0               | 0.5           | 9.0         |            |          |          |           | 0:5        | 0.3     | 0.4         |             | 0.4     | 0.4       |
| 1,12,41/997   water   0.6   0   1689   E   0.5   0   312   32.6   14.2   0.4   0   11.2   0   14.5   0.0   0.0     0,10,11/998   water   0.6   0   1680   E   0.5   0   25.0   14.5   14.5   14.5   14.5   0.4   0   11.2   0   12.0   0.0     0,10,11/998   water   0.6   0   1680   E   0.5   0   25.0   0   14.5   0   14.5   0   0.0     0,10,11/998   water   0.6   0   1600   0   1600   0   1600   0   1600   0   1600   0   1600     0,10,11/998   water   0.6   0   1600   0   1600   0   1600   0   1600   0   1600   0   1600     0,10,11/998   water   0.6   0   1600   0   1600   0   1600   0   1600   0   1600   0   1600   0   1600     0,10,11/998   water   0.6   0   1600    |            | 05/11/1999        | water  |                   | 11,800.0           | 250.0         | 300.0       |            |          |          |           | 250.0      | 150.0   | 200.0       |             | 7       | 2000      |
| 1,224/1999   water   0.6 to   1689   E   0.5 to   23.7   11.0   11.2 to   0.4 to   11.2 to   0.5 to   1.2 to   0.5 to    | 7-119      |                   |        |                   |                    |               |             |            |          |          |           |            |         | 1           |             | 2       | 0.00      |
| District    |            | 12/24/1997        | water  | }                 | 189.9              | 0.5           | 31.2        | 28.6       | 14.2     | 0.4 U    | 12 U      | 11.3       | F       | 40          | 3.2         | a       | Š         |
| 05/61/1999   water   0.0   0   0.0   |            | 04/27/1998        | water  | 1                 | 180.0              | 0.5           | L           | 10.0       | 13.0     | 0.4      | -         | 8.0        | 1       |             |             |         | 4.0       |
| Coloriorable water   Color of   Section   Coloriorable water   Color of   Color o   | _          | 07/01/1998        | water  | 1                 | 210.0              | 0.5           |             | 11.7       | 11.9     | 0.4      | 1         | 6.7        | 1       | 40          | 3.5         |         | 1.0       |
| Control   Cont   |            | 09/15/1998        | water  | 1                 | 200.0              | 0.5           | 16.0        | 6.0        | 1,0      | 100      |           | 9          | 1       | 1.0         | 3.5         | 4.7     | 4.0       |
| Table   Tabl   |            | 05/10/1999        | water  |                   | 985.0              | 250.0         |             |            |          | 1 0      |           |            | 0.0     | 5           | 2.5         | 3.6     | 0.4       |
| 1224/1999   water   5000 0   4000 0   5000 0   4000 0     | -120       |                   |        | 1                 | L                  | 1             | 1           | -          | -        | 200.0    | - 1       | - 1        | 130.0   | 200.0       | 0.009,1     | Z00.0 O | 200.0     |
| 12,2411999   water   0.00   0. 4,000   0. 5,000   0. 1,000   0.    |            | 12/24/1997        | water  | 1                 | 150.5              | 25.0          | 10901       | 124.0      | -        | 11 000   | 000       |            |         | 000         | - 1         |         |           |
| CONTINION WINDOWN WINDOWN   COLUMN      |            | 1                 | water  |                   | 4000               | 0.005         | 150.0       | 220.0      |          | 20.00    |           | -          | ľ       | 20.0        | - 1         |         | 20.0      |
| CHANTINGS   Water   ChanTill   CHANTINGS   |            | 1                 | water  | 1                 | 37.6               | 2000          | 20.0        | 66.0       |          | 400.0    | F         | -          | 300.0   | 400.0       | 3,200.0     | 400.0   | 400.0     |
| 1224/1997   water   300   0   286   0   2500   0   1046   0   10   |            | 09/15/1998        | water  | 1                 |                    |               | 44.0        | 22.0       | 000      | 20.4     | 0 :       | 9.         |         | 0.4         | 3.2         |         | 4.0       |
| Table   Tabl   |            | 05/11/1999        | water  |                   | 2000               | 250.0         |             |            |          |          | 7 009     |            | 5.0.3   |             |             | 6.4.9   | 4.0       |
| 1224/1997   Waler   500 U   226.5   D   27500 U   146.0   D   26170   D   200 U   500 U   250 U   150 U   150 U   260   D   200 U   150 U   260   D   200 U    | -121       |                   |        | 1                 |                    |               | 1           | 1          | -1       | П        | 0.000     | - 1        | 0.061   | 700.0       | 0.009,1     | 700.0 O | 200.0     |
| Control 1998   water   Color   |            |                   | water  |                   | 28.5               | 2.750.0       | 104.5       | 448.0      | 0 0 1 C  | 11 000   | 11 0 08   | 25.0 11    | - [     |             | 0.097       | - 1     | 0         |
| OCTOTION   NS  |            |                   | water  | Į                 | 400.0              | 500.0         | 130.0 FD    | 570 0      | 260.0 ED | 0.00     | 1 200.0   | 0.00       | 1       | 2000        | 0.000       | 0.4.0   | 70.0      |
| CGF1/1999 water   O.6   U.   C.200   U.      |            |                   | dry    | NS                | SN                 |               | SN          | S N        | NA       | No       | 0.002,    | No.        |         |             |             |         | 400.0     |
| 1224/1999   water   300  |            | 1                 | water  |                   |                    | 1             | 73.0 E      | 160.0      | 1        | 0.4      | 1         | 20.0       |         |             | 3.2         |         | 2 2       |
| 1224/1992   water   30.0 U   369.5 D   255 U   21.5 FD   18.5 FD   55.0 U   20.0 U   25.0 U   15.0 U   |            |                   | water  | 1                 | 200.0              | 250.0         | 1           | 1          | 1        | 200.0    |           | 250.0 11   | 1       | 2000        | 1 80        |         | 4:00      |
| 1224/1997   water   300   0   550   0   21.5 FD   18.6 FD   550   0   200   0   150    | 122        |                   |        |                   |                    |               |             |            | 1        |          | ı         | 2          | 2       | 1           | 2001        | l       | 200.0     |
| Oxioning water   Oxion   Oxi   |            |                   | water  | li                | 369.5              | 25.0          | 21.5 FD     | 18.5       | 55.0 U   | 1        | 0.09      | 25.0 U     |         | 20.0 U      | 160.0 U     | 200     | 20.0      |
| OSCINTINGS   Water   O.6   U   C.200   D   O.5   U   O   | 1          | - !               | water  | - 1               | 650.0              | 0.5           | 31.0        |            | 10.0     | 0.4 U    | 1.2 U     | 28         | 1       | 0.4         | 3.2         |         | 4.0       |
| OSTINIBBE   Walter   300.0 U   250.0 U   300.0 U   650.0 U   560.0 U   200.0 U   250.0 U   150.0   |            | - 1               | water  |                   | 220.0              | 0.5           | 10.0        | 4.7        | 3.1      | 0.4<br>U | 1.2 U     | 12.0       | 1       |             | 3.2         |         | 0.4       |
| 12/24/1997   water   3.0   6,000.0   2.5   0   44.2   33.7   10.8   2.0   0   6.0   0   24.0   1.5     |            | - 1               | water  |                   | 200.0              | 250.0         | - 1         |            |          |          | 0.009     | -          | 150.0   | J 200.0 U   | J 1,600.0 U | 200.0 U | 200.0     |
| 12/24/1997   water   300 U   512.6 D   250 U   78.0 D   44.0 FD   47.5 FD   200 U   600 U   250 U   15.0     04/27/1998   water   0.6 U   500.0 & 0.5 U   34.0   24.0   23.0   24.0      |            | - 1               | water  | - 1               | 6,000.0            | 2.5           | 44.2        | 33.7       | 10.8     |          | 0.9       | 24.0       |         | 2.0 U       | J 16.0 U    | 27.8    | 3.2       |
| 12/24/1997   water   30.0 U   512.6 D   25.0 U   78.0 D   44.0 FD   47.5 FD   20.0 U   60.0 U   25.0 U   15.0 U   12.24/1998   water   0.6 U   230.0 D   0.5 U   13.1   6.2   12.0   0.4 U   1.2 U   1.2 U   1.2 U   0.3 U   0.3 U   0.5 U   13.1   1.2 U   1.3 U   1.1 U   0.4 U   1.2 U   1.2 U   1.2 U   0.3 U   0.3 U   0.3 U   0.5 U   1.3 U   1.1 U   0.4 U   1.2 U   0.5 U   0.3 U   0.5 U      | 124        | _                 |        |                   |                    |               |             |            |          |          |           |            |         |             |             |         |           |
| 0.4/27/1998   water   0.6 U   550.0 & 0.5 U   13.1   6.2   11.2   0.4 U   1.2 U   17.2   0.4 U   1.2   | 1          | _                 | water  | - 1               | 512.5              | 25.0          | - 1         | 44.0 FD    | 47.5 FD  |          | 0.09      | 25.0 U     |         | J 20.0 U    | J 160.0 U   | 20.0 U  | 20.0      |
| OF/2/1998         water         0.6         U         320.0         D         5.0         13.1         6.2         11.2         0.4         U         12.2         U         7.2         0.7           05/10/1998         water         0.6         U         591.0         D         50         U         13.0         53.0         0.4         U         12.0         12.0         0.5         0.5         U         13.0         13.0         0.4         U         12.0         0.4         U         12.0         0.5         U         13.0         0.4         U         12.0         0.5         U         0.5         U         13.0         U         11.0         0.4         U         12.0         0.5         U         0.5         U         13.0         U         11.0         0.4         U         0.5         U         0.5         U         13.0         U         11.0         0.4         U         0.5         U         0.5         U         13.0         U         11.0         0.4         U         0.5  |            | - 1               | water  | - 1               | 500.0              | 0.5           | 34.0        | 23.0       | 23.0     | -        | 1.2 U     | 14         |         | 0.4         | 3.2         | L       | 0.4       |
| O4/27/1998         water         O.6         U. 470.0         E. 0.5         U. 470.0         E. 0.5         U. 470.0         E. 0.5         U. 480.0         U. 55.0         U. 591.0         U. 55.0         U. 55.0         U. 13.0         1.1         U. 0.4         U. 12.0         U. 35.8         U. 0.3           04/27/1998         water         0.6         U. 0.5         U. 0.5         U. 0.5         U. 130.0         U. 1.00.0         U. 400.0         U. 12.0         U. 0.5         U. 0.3           12/24/1997         water         600.0         U. 0.4         U. 0.5         U. 0.6         U. 1.300.0         U. 1.100.0         U. 400.0         U. 12.0         U. 0.5         U. 0.5           12/24/1997         water         0.6         U. 0.4         U. 0.5         U. 0.6         U. 1.3         U. 1.1         U. 0.4         U. 1.2         U. 0.5         U. 0.5         U. 0.6         U. 1.3         U. 1.1         U. 0.4         U. 1.2         U. 0.5         U. 0.5         U. 0.6         U. 1.3         U. 1.1         U. 0.4         U. 1.2         U. 0.5         U. 0.5         U. 0.6         U. 1.3         U. 1.1         U. 0.4         U. 1.2         U. 0.5         U. 0.5         U. 0.6         U. 1.3         U. 1.1         U. 0.4   |            | - 1               | water  | - 1               | 320.0              | 0.5           | 13.1        | 6.2        | 11.2     | -        | 1.2 U     | 7.2        |         | 4.0         | 3.2 U       |         | 0.4       |
| D5/10/1999   water   O.6 U   S91.0   O.5 U   O.6 U   1.3 U   1.1 U   O.4 U   1.2 U   0.5 U   0.5 U   O.6 U   0.5 U     |            | - 1               | water  | - 1               | 470.0              | 0.5           | 24.0        | 13.0       | 23.0     |          |           | 12.0       |         | U 0.4 U     |             |         | 0.4       |
| 04/27/1998         water         0.6         U         1.3         U         1.1         U         0.4         U         0.5         U         0.6         U         1.3         U         1.1         U         0.4         U         0.5         U         0.6         U         1.300.0         U         1.100.0         U         0.4         U         0.5         U         0.6         U         1.300.0         U         1.100.0         U         0.4         U         0.5         U         0.6         U         1.300.0         U         1.1         U         0.4         U         1.2         U         0.5         U         0.6         U         1.1         U         0.4         U         1.2         U         0.5         U         0.6         U         1.3         U         1.1         U         0.4         U         0.5         U         0.6         U         1.3         U         1.1         U         0.4         U         0.5         U         0.6         U         1.3         U         1.1         U         0.4         U         0.5         U         0.6         U         1.3         U         1.1         U   |            | - 1               | water  | - 1               | 591.0              | 0.5           | 159.0       | 55.8       | 83.5     | 2.7      | 1.2 U     | 35.8       | 1       |             | 1           | 4       | 4.7       |
| 04/27/1998         water         0.6         U         1.3         U         1.1         U         0.4         U         0.5         U         0.6         U         1.300.0         U         1.100.0         U         1.200.0         U         0.5         U         0.6         U         1.300.0         U         1.100.0         U         1.200.0         U         0.5         U         0.5         U         0.6         U         1.3         U         1.1         U         0.4         U         1.2         U         0.5         U         0.6         U         1.3         U         1.1         U         0.4         U         1.2         U         0.5         U         0.6         U         1.3         U         1.1         U         0.4         U         0.5         U         0.6         U         1.3         U         1.1         U         0.4         U         1.2         U         0.5         U         0.6         U         1.3         U         1.1         U         0.4         U         0.5         U         0.5         U         0.5         U         0.5         U         0.5         U         0.5         U   |            |                   |        | - 1               |                    |               |             |            |          |          |           |            |         |             |             |         |           |
| 04/27/1996         water         600.0         U         600.0         U         1,300.0         U         1,100.0         U         400.0         U         1,300.0         U         1,100.0         U         400.0         U         1,200.0         U         300.0         U   |            |                   | water  | - [               | 0.4                | 0.5           | 0.6 U       |            |          | 1        |           |            | 0.3     | 0.4 U       | 3.2 U       | 0.4 U   | 0.4       |
| 04/27/1998         water         600.0         U         600.0         U         600.0         U         1300.0         U         <  |            |                   | 1      |                   |                    |               |             |            |          |          |           |            |         |             |             |         |           |
| 12/24/1997   water   0.6 U   0.4 U   0.5 U   0.6 U   1.3 U   1.1 U   0.4 U   1.2 U   0.5 U   0.3 U     |            | $\perp$           | Water  | - 1               | 5000               | 0.003         | - 1         | - 1        |          |          | - 1       |            |         |             |             |         |           |
| 12/24/1997 water 0.6 U 0.4 U 0.5 U 0.6 U 1.3 U 1.1 U 0.4 U 1.2 U 0.5 U 0.3 U 0.6 U 1.3 U 1.1 U 0.4 U 1.2 U 0.5 U 0.3 U 0 | T          | L                 |        |                   |                    | 2.22          | 1           | 1          | -        | -        | - 1       | - 1        | 300.0   | 400.0 C     | 3,200.0 U   | 400.0 U | 400.0     |
| 12/24/1997 water 0.6 U 0.4 U 0.5 U 0.6 U 1.3 U 1.1 U 0.4 U 1.2 U 0.5 U 0.3 U 0.4 U 1.3 U 1.1 U 0.4 U 1.2 U 0.5 U 0.3 U 0 |            |                   |        | 1                 |                    | 20            |             | 1          | 1        | 1        | 1         | - 1        | 0       |             |             |         |           |
| 12/24/1997   water   0.6 U   0.4 U   0.5 U   0.6 U   1.3 U   1.1 U   0.4 U   1.2 U   0.5 U   0.3 U   0.5 U   0.6 U   1.3 U   1.1 U   0.4 U   1.2 U   0.5 U   0.3 U     |            |                   |        | 1                 | 1                  |               |             | 1          |          | 1        | 1         |            | 2.0     | 4.0         | 3.2 0       | 0.4     | 4.0       |
| 12/24/1997         water         0.6         U         0.5   |            |                   |        |                   |                    |               |             |            |          |          |           |            |         |             |             |         |           |
| Marker   O. G. U   O. G.   |            |                   | water  | 1 1               | 0.4                | 9.0           | 1           |            |          | 1        | 1         | 1          | 0.3     | 0.4         |             | 0.4     | 0.4       |
| 12/24/1997   water   0.6 U   0.4 U   0.5 U   0.6 U   1.3 U   1.1 U   0.4 U   1.2 U   0.5 U   0.3 U   0.5 U     |            |                   | water  |                   | 0.4                | 9.0           |             | 1          |          | i .      |           | 1          | 0.3     | 0.4         | 3.2         | 0.4     | 40        |
| 12/24/1999 water 0.6 U 0.4 U 0.5 U 0.6 U 1.3 U 1.1 U 0.4 U 1.2 U 0.5 U 0.3 U 0 |            |                   |        |                   | 0.4                | 9.0           | í           | 1          |          | 1        |           | Γ          | 0.3     | 0.4         | 3.2         | 0.4     | 0.4       |
| 12/24/1997 water 0.6 U 0.4 U 0.5 U 0.6 U 1.3 U 1.1 U 0.4 U 1.2 U 0.5 U 0.3 U 0.3 U 0.3 U 0.3 U 0.5 U 0 |            | - 1               |        | li                |                    |               |             |            |          |          |           |            | 1       |             |             |         |           |
| 04/27/1998 water 0.6 U 0.4 U 0.5 U 0.6 U 13 U 1.1 U 0.4 U 1.2 U 0.5 U 0.3 U 0.3 U 0.3 U 0.5 U 0. |            | - [               | water  | - 1               |                    | 0.5           | 1 1         | 1 :        |          | 0.4 U    | 1.2 U     | 0.5 U      | 0.3     | 0.4 U       | 3.2 U       | 0.4 U   | 0.4       |
| 07/01/1998 water 0.6 U 0.4 U 0.5 U 0.6 U 1.3 U 1.1 U 0.4 U 0.5 U 0.5 U 0.7 U 0.7 U 0.7 U 0.8 U 0.7 U 0.8 U 0.7 U 0.8 U 0.7 U 0.8 U 0.8 U 0.7 U 0.7 U 0.8 U 0.7 U 0.7 U 0.8 U 0.7 U 0.8 U 0.7 U 0 |            | - 1               | water  | - 1               |                    | 0.5           |             | 1          |          |          | 1         | 1          | 0.3     | 0.4         |             | 0.4     | 0.4       |
| water 0.6 U 0.4 U 0.5 U 0.6 U 1.3 U 1.1 U 0.4 U 0.5 U 0.5 U  | 021)       | - [               | water  | - 1               | 0.4                | 0.5           |             | l          |          | 1        | 1         |            | 0.3     |             | 3.2         | 0.4     | 0.4       |
| 0  |            |                   | water  |                   | 0.4                | 0.5           |             | ı          |          | 1        | 1         |            | 0.3     | 0.4         | 3.2 U       | 4.0     | 0.4       |

U - The analyte was analyzed for but not detected. The associated numeric value is at or below the MDL. De compound was found in an analysis at at a secondary dilution factor.

F - The analyte was positively identified but the associated numerical value is below the reporting limit.

E - Concentration exceeded the calibration range of the instrument.

B- The analyte was found in the associted blank, as well as in the sample.

i - Value was obtained from a 1:25,000 dilution.

s - Value was obtained from a 1:1000 dilution.

NA - The analyte was not analyzed for this compound.

NS - No sample

| Markey   M   | Sample ID: | Date        | Matrix | 4-Chioro- | 1,3,5-Tri- | Tert-butyl | 1,2,4-Tri- | Sec-butyl |          | 4-Isoproyl- | 1,4-Di-   | 1,2-Di-   | n-Buty!- | 1,2-Di-       | 1,2,4-Tri- | Hexa-      | Naphtha- | 1,2,3-Tri- | Total    |
|--|------------|-------------|--------|-----------|------------|------------|------------|-----------|----------|-------------|-----------|-----------|----------|---------------|------------|------------|----------|------------|----------|
| Continue    |            | Allalyzeu.  | Water  | 0         | benzene    | Denzene    | benzene    | penzene   |          | toluene     | chloro-   | chloro-   | penzene  | bromo-3-      | chloro-    | chloro-    | lene     | chloro.    | VOCS     |
| The control of the    | 7-007      |             |        |           |            |            |            |           | 2017010  |             | Delizerie | Delizerie |          | cnioropropane | Denzene    | Dutagliene |          | penzene    |          |
| Continue    |            | 12/24/1998  |        | 1         |            | 1.4        |            |           | 20.9     | 1.4         | 44.2      |           |          |               |            | +          | 000      | 100        | 140 455  |
| Continue    |            | 04/27/1998  |        |           |            | 1          | 1.3        |           | 21.0     |             | 45.0      |           | -        | 2.5           |            | 1          | 200      | 500        | 107 074  |
| Continue    |            | 07/01/1998  |        |           | 0.2        | 1.4        | 1.3        | 1.3       |          | 1           | 19.9      |           | 1.1      | 2.6           | 0.4        |            |          |            | 1        |
| 1,0,0,0,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1  |            | 09/15/1998  |        |           | 0.5        | 1.4        | 1.3        | 1.3       |          |             | 7.0       | 11.0      |          | 26            | 40         | +          |          |            | Ł        |
| Cutations with the control of the    |            | 05/11/1999  |        | - 1       | 250.0      | 700.0      | 650.0      | 650.0     |          |             |           | 3,350.0   | 550.0    | 1,300.0       | 200.0      | 550.0      | 1,000.0  | 150.0      | 204,615. |
| Continue    | -119       |             | - 1    | - 1       |            |            |            |           |          |             |           |           |          |               |            |            |          |            |          |
| Control   Cont   |            | 12/24/1998, | - 1    | - 1       |            |            |            | 16.0      | 43.9     | 16.4        | 1         |           | 1.1      | 2.6           | 4.0        | 1.1        |          | 1          | 19 103   |
| Control   Cont   |            | 04/27/1998  | - 1    |           |            |            |            | 11.0      | 38.0     |             | ı         |           | 1.1      | 3.0           | 0.4        |            |          |            | 23.075   |
| Controllege water 500   Sept 0   Controllege water 500   Controllege water 5   |            | 07/01/1998  |        |           |            |            |            | 6.5       | 23.9     | 1           | 1         |           | 1.       | 26            | L          |            | L        |            | 11 162   |
| Controlled where   |            | 09/15/1998  | 1      | l         |            |            |            |           | L        | i i         |           |           | -        | 2.5           |            |            |          | 1          | 27 574   |
| Table   Tabl   |            | 05/10/1999  |        |           | 250.0      | 700.0      | 650.0      | 650.0     | 6000     | 0009        | 360.0     | 675.0     |          | 1 300 0       | ,          |            | 0.000    | 760.0      | 4/6/12   |
| Controlled ware  | -120       |             |        |           |            |            |            |           |          |             |           |           | П        | 0.0004        |            | Т          | 200-     | 2000       | 02,320.  |
| Marchise water   Color   Col   |            | 12/24/1998  | L      | 1         | 64.5       | 70.0       |            | 65.0 U    | 64.0 D   | 0.09        |           |           | 55.0     | 130.0         | 0.00       | 0 33       | 000      | 0 4        | 440 040  |
| 1,000,11999   water   0.6   0. 200   0. 200   0. 120      |            | 04/29/1998  | L      | 1         | 500.0      | 1.400.0    | L          | 1 300 0   | 1200 011 | 1 200 0     | 1         |           | 1 100.0  | 2,800.0       | 7000       | 1,000      | 90.0     | 0.00       | 449,610. |
| 1,12,2411999   water   0.00   0. 106   0. 200   0. 13.0   0. 10   0.   |            | 07/01/1998  | L      | 1         | 33.2       | 1.4        | L          | 4.3       | 25.9     | 13.1        |           | L         | 44.2     | 2,000.2       |            | 1          | 4400.0   | 300.0      | 464,380  |
| Continue    |            | 09/15/1998  |        | 1         |            |            | 43.0       | 13        |          | 1           | 40.0      | 120.0     | -        | 0.7           |            | -          | 12.0     |            | 39,385   |
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,   |            | 05/11/1999  |        |           | 250.0      | 700.0      | 650.0      | 650.0     | 6000     | 6000        |           | 165.0     |          | 1 300 0       |            |            | 13.0     |            | 328,854  |
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,   | 121        |             |        |           |            |            |            |           |          |             | 1         |           | 1        | 0.000         |            | 330.0      | -1       |            | 484,013. |
| Continue    |            | 12/24/1998  | L      | ł         |            | 70.0       |            | 65.0      |          | 46 5 FD     | 142 5     | L         | 0 25     | 130.0         |            | 0 33       | - 1      |            | 000      |
| Continue    |            | 04/29/1998  | L      | 1         |            | 1.400.0    | L          | 1 300 0   | 12       | 1 200 0     | 3000      |           | 1 100.0  | 2,000         |            | 1,000      |          | 15.0       | 799 966  |
| Control 1985   Control 2014   Cont   |            | 07/01/1998  | L      | ]         |            | SN         | L          | SN        | S        | S SN        | O V       | L         | 0.00     | Z,000.0       |            | 1,100.0    | 400.0    | 300.0      | .086,711 |
| 1,22441999   water   30.0   30.0   30.0   1,000   1,   |            | 09/15/1998  |        |           |            | 1.4        | 290.0      | 13        |          | 49.0        | 1         | 270.0     | 1        | 90            | 2          |            | 1        | 200        | 000      |
| 2 1224(1999) water 50 0 440 10 10 10 10 10 10 10 10 10 10 10 10 10   |            | 05/11/1999  | 1      | ş         | 350.0      | 700.0      | 650.0      | 650.0     | 0 009    | 1           |           | 210.0     |          | 1 300 0       | 2000       | 250.0      | 1000     | 200        | 200,003  |
| 1,224/11999   water   20,0   1, 210 P   1, 20 U   650 U   65   | 122        |             |        |           |            | 1          |            |           |          | ı.          | 1         | L         | 1        | 2             | 200        | 200        | 0.000,   | 20.00      | 017,433  |
| Decirior    |            | 12/24/1997  | Ш      | 1 8       | 21.0 FD    | 70.0       | 65.0       |           | 1        |             | 1         |           | 55.0     | 130.0         |            | 1 55.0 U   | 20.0     |            | 29 129   |
| Table   Tabl   |            | 04/27/1998  |        | 5.0       | 44.0       | - {        | 270.0      |           |          |             |           |           | 1.1      | 2.6           |            | 1.1 U      | 38.0     |            | 56 655   |
| Column   C   |            | 07/01/1998  |        | - 1       | 1.5        | 5.2        | 3.1        | 10.8      | 30.2     |             |           |           | 1.1      | 2.6           |            | 1.1 U      | 3.2      | 1          | 23.274   |
| 1224/1999   Water   35 0   478   116   1700   210      |            | 09/21/1998  |        | - 1       | 1          | 700.0      | 650.0      | 650.0     | 0.009    |             |           |           | 550.0    | 1,300.0       |            | J 550.0 U  | 200.0 L  |            | 33,210.  |
| Table   Tabl   |            | 05/11/1999  | water  | - 1       | 47.8       | 11.6       | 170.0      | 21.0      | 62.3     | 1           | 1 1       | 2,920.0   |          | 1             | 2.0        |            | 29.0     | 1.5 U      | 273,741. |
| 1224/1999   water   0.6 U   0.5 U   1.40   0.0 U   1.50   | 124        |             |        | - 1       | - 1        |            |            |           |          |             |           |           |          |               |            |            |          |            |          |
| Table   Tabl   |            | 12/24/1997  | - 1    | - 1       | 1          | 70.0       | 107.0      | 65        |          | i           |           |           | 55.0     | 130.0         |            | J 55.0 U   | -        |            | 40,515.  |
| OVAICATIVESE         Water         0.6         U         1.3         3.7         6.2         1.2         U         6.00         BD         1.1         U         2.6         U         1.1         U         2.6         U         1.1         U         3.3         0.6         7.4           9/15/1998         water         0.6         U         47.9         1.3         47.0         1.2         U         1.0         2.6         U         1.1         U         47.0         1.2         U         9.0         1.1         U         4.7         1.1         U         4.7         1.2         0         30.0         0         1.0         0         1.3         U         1.2         0         30.0         0         1.0         0 <t< td=""><td></td><td>04/27/1998</td><td>- 1</td><td>- 1</td><td>19</td><td>- 1</td><td>62.0</td><td>14</td><td>28</td><td></td><td></td><td></td><td>1.1</td><td>2.6</td><td></td><td>1.1 U</td><td>35.0</td><td>0.3 U</td><td>10,853.8</td></t<>  |            | 04/27/1998  | - 1    | - 1       | 19         | - 1        | 62.0       | 14        | 28       |             |           |           | 1.1      | 2.6           |            | 1.1 U      | 35.0     | 0.3 U      | 10,853.8 |
| Market   O.G. U   4779   474   680 E   1.3 U   4770   12 U   1900 E   4100 E   4100 E   410 D   107   2.6 U   1.0   1.   |            | 07/01/1998  | - 1    | - 1       | 1.3        |            | 3.9        | ٩         | 26.2     |             |           |           | 1.1      | 2.6           |            | 1.1 U      | 6.2      | 1          | 7,447.   |
| 90427/1998 water 0.6 U 0.5 U 14 U 13 U 130 U 12 U 12 U 0.3 U 0.3 U 11 U 2.6 U 0.4 U 11 U 0.4 U 12 U 0.3 U 0. |            | 09/15/1898  | - 1    | - 1       | 22.0       | - 1        | 68.0       | 1.3       | 47.0     |             | - 1       |           | 1.1      | 2.6           |            | 1.1 U      | 33.0     | 0.7        | 30,261.  |
| O4/27/1998         water         0.6         U         0.5         U         1.3         U         1.3         U         1.2         U         2.8         U         1.1         U         0.6         U         0.5         U         1.3         U         1.2         U         1.1         U         2.6         U         1.1         U         2.6         U         1.1         U         2.6         U         1.1         U         1.1         U         1.1         U         1.1   |            | 510/88      | - 1    | - 1       | 47.9       | 14.4       | 85.6       | 24.1      | 100.0    | 2.8         | - 1       |           |          | 2.6 ∟         | 1.6        | 1.1 U      | 47.8     | 1.2        | 30,504   |
| 04/27/1998         water         650.0         1         14         1         13         1         2         1         1         0         0         0         1         1         0   | 1          |             |        | - 1       | - 1        |            |            |           |          |             |           |           |          |               |            |            |          |            |          |
| Q4/27/1996         water         6000         U         5000         U         13000         U   | 1          | 04/27/1998  | water  | - 1       | - 1        | 1.4        |            | 1.3 U U   |          |             |           | 0.3       | Н        | 2.6           | 9.4        | 1.1        | 0.4      |            | 0.6      |
| 04/27/1998         water         600.0         U         500.0         U         1,300.0         U         1,200.0         U         1,100.0         U         0,3         U         1,1         U         2.6         U         0,4         U         1,1         U         2.6         U         0,4         U         1,1         U         2.6         U         0,4         U         1,1         U         0,4         U         1,1<  |            |             |        |           |            |            |            |           |          |             |           |           |          |               |            |            |          |            |          |
| 12724/1997   Water   0.6 U   0.5 U   14 U   13 U   13 U   13 U   13 U   12 U   12 U   0.3 U    |            | 04/27/1998  |        | - 1       | -1         | 1 400 0    | 1 300 0    | 1300 011  | 1 200 0  | 1 200 0     | 280.0 ED  | 240.0     | 1        | 0000          | 0007       | 000        | 000      | 000        | 000      |
| 12/24/1997   Water   0.6 U   0.5 U   14 U   13 U   13 U   12 U   12 U   0.3 U   0.3 U   0.3 U   0.3 U   0.3 U   0.4    |            |             |        | 1         |            | 200        | 200        | 0000      | 2,200.0  | 0.002,1     | 200.00    | 140.0     | 7,100.0  | 2,600.0       | 400.0      | 0.001,1    | 400.0    | 300.0      | 30,980.0 |
| 12/24/1997   Water   0.6 U   0.5 U   1.4 U   1.3 U   1.3 U   1.2 U   1.2 U   0.3 U   0.3 U   1.1 U   2.6 U   0.4 U   1.1 U   0.4 U   0.1 U   0.3 U   0.4 U     |            |             |        | 1         | i i        | 1.4        |            | 1         |          | 1.2         | 1         | 0.2       |          | 26            | 6          | 1 1        |          | -          | 101      |
| 12/24/1997   water   0.6 U   0.5 U   14 U   13 U   13 U   13 U   12 U   12 U   0.3 U   0.1 U   0.4 U   0.4 U   0.4 U   0.4 U   0.5 U   0.4 U   0.5 U   0.5 U   14 U   13 U   13 U   13 U   12 U   12 U   0.3 U   0.3 U   0.1 U   0.4 U   0.4 U   0.4 U   0.1 U   0.4 U   0.5 U   0.5 U   14 U   13 U   13 U   13 U   12 U   12 U   0.3 U   0.3 U   0.3 U   0.1 U   0.4 U   0.5 U   0.5 U   14 U   13 U   13 U   12 U   12 U   0.3 U   0.3 U   0.3 U   0.3 U   0.3 U   0.4 U   0.5 U   0.5 U   0.5 U   14 U   13 U   13 U   12 U   12 U   0.3   |            |             |        |           |            |            |            | 1         |          |             | 1         | ;         |          | 2             | ?          |            |          |            | 10.      |
| 12/24/1997   Waler   0.6 U   0.5 U   1.4 U   1.3 U   1.3 U   1.3 U   1.2 U   1.2 U   0.3 U   0.1 U   0.3 U   1.1 U   0.4 U   0.1 U   0.4 U   0.1 U   0.4 U   0.3 U   0.4 U     |            |             |        |           |            |            |            |           |          |             |           |           |          |               |            |            |          |            |          |
| Q42Z7/1998         water         0.6         U         0.5         U         1.4         U         1.3         U         1.2         U         1.2         U         0.3         U         1.1         U         0.4         U         0.4         U         0.4         U         0.4         U         0.5         U         0.5         U         1.1         U         0.4         U         1.1         U         0.4         U         1.1         U         0.4         U         0.1         U         0.4         U         1.1         U         0.4         U         0.1         0.4         U         0.  |            | 12/24/1997  | water  |           |            | 1.4        |            |           | 1        | -           |           | 0.3       |          | 2.6           | 0.4        | 1-         | 0.4      | 60         | -        |
| 122/24/1997   Walter   0.6 U   0.5 U   1.4 U   1.3 U   1.3 U   1.2 U   1.2 U   0.3 U   0.3 U   0.1 U   0.5 U   0.4 U   1.1 U   0.4 U   0.5 U   0.5 U   1.4 U   1.3 U   1.2 U   1.2 U   0.3 U   0.1 U   0.3 U   0.1 U   0.5 U   0.5 U   1.4 U   1.3 U   1.3 U   1.2 U   1.2 U   0.3 U   0.3 U   0.1 U   0.5 U   0.5 U   0.5 U   1.4 U   1.3 U   1.3 U   1.2 U   1.2 U   0.3 U   0.3 U   0.1 U   0.5 U   0.5 U   0.5 U   0.5 U   1.4 U   1.3 U   1.3 U   1.2 U   0.3 U   0.3 U   0.1 U   0.5 U   |            | 04/27/1998  | water  | - 1       | - 1        | 1.4        | 1.3        | 1.3 U     |          | 1           |           | 0.3       |          | 2.6           | 0.4        | 1.1        | 0.4      | 0.3        | 0        |
| 12/24/1997 water 0.6 U 0.5 U 1.4 U 1.3 U 1.3 U 1.2 U 1.2 U 0.3 U 0.3 U 0.1 U 2.6 U 0.5 U 1.4 U 1.3 U 1.3 U 1.2 U 1.2 U 0.3 U 0 | _          |             |        |           |            | 1.4        | 1.3        | 1.3       |          |             |           | 0.3       |          | 2.6           | 0.4        | 7          | 0.4      | 0.1        | 00       |
| 12/24/1997   water   0.6 U   0.5 U   14 U   1.3 U   1.3 U   1.2 U   1.2 U   0.3 U   1.1 U   2.6 U   0.4 U   1.1 U   0.4 U   0.3 U   0.3 U   1.1 U   0.5 U   0.5 U   1.4 U   1.3 U   1.2 U   1.2 U   0.3 U   0.1 U   1.1 U   0.5 U   0.5 U   1.4 U   1.3 U   1.2 U   1.2 U   0.3 U   0.1 U   0.1 U   0.5 U   0.5 U   0.5 U   1.4 U   1.3 U   1.2 U   1.2 U   0.3 U   0.1 U   0.5 U      |            |             |        |           |            |            |            |           |          |             |           |           |          |               | L          | L          |          |            |          |
| 04/27/1998 water         0.6 U         0.5 U         1.4 U         1.3 U         1.2 U         1.2 U         0.3 U         0.3 U         0.1 E         1.1 U         0.3 U         0.3 U         0.4 U         0.5 U         1.4 U         1.3 U         1.3 U         1.2 U         1.2 U         0.3 U         0.3 U         0.2 U         0.3 JB         1.1 U         0.4 U         0.6 B           07/07/1998 water         0.6 U         0.5 U         1.4 U         1.3 U         1.3 U         1.2 U         1.2 U         1.2 U         0.3 U         0.1 JB         1.1 U         0.2 JB         1.1 U         0.3 JB         0.1 JB         1.1 U         0.2 JB         1.1 U         0.3 JB         0.3 B   |            | 12/24/1997  | 1      | - 1       | 0.5        | 1.4 U      | 1.3        | 1.3 U     |          | l           |           | 0.3       |          | 1             | 0.4        |            |          | 0.3        | 0.0      |
| 1) 0/0/0/1998 water 0.6 U 0.5 U 1.4 U 1.3 U 1.2 U 1.2 U 0.3 U 0.3 U 1.1 U 2.6 U 0.3 JB 1.1 U 0.4 U 0.6 B 0.7/01/1998 water 0.6 U 0.5 U 1.4 U 1.3 U 1.3 U 1.2 U 1.2 U 0.3 U 0.1 JB 1.1 U 0.2 JB 1.1 U 0.3 J 0.3 B   |            | 04/27/1998  |        | - 1       | 0.5        | 1.4        | 1.3        | 1.3 U     |          |             | 1         | 0.3       | 1        | 2.6           | 0.1        | 1.1        | 0.4      | 0.3        | 3.       |
| 07/01/1998 water 0.6 U 0.5 U 1.4 U 1.3 U 1.2 U 1.2 U 0.3 U 0.1 JB 1.1 U 2.6 U 0.2 JB 1.1 U 0.3 J 0.3 B   | (120       | 0//01/1998  |        | - 1       | 0.5        | 1.4        | 1.3        | 1.3       |          | ii          | 1         | 0.3       | 1.1      | 2.6           | 0.3        | 1.1        | 0.4      | 9.0        | 4.6      |
|  |            | 07/01/1998  |        |           | 0.5        | 1.4        | 1.3 U      | 1.3 U     |          |             |           | 0.1       | 1.1      |               | 0.2        |            | 0.3      | 1          | 4,4      |

Notes:

U - The analyte was analyzed for but not detected. The associated numeric value is at or below the MDL. D - The compound was found in an analysis at at a secondary dilution factor.

F - The analyte was positively identified but the associated numerical value is below the reporting limit.

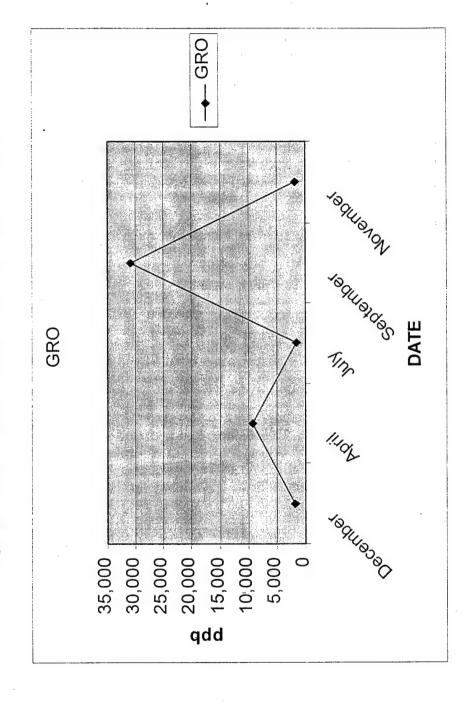
E - Concentration exceeded the calibration range of the instrument.

B- The analyte was found in the associded blank, as well as in the sample. I - Value was obtained from a 1:25,000 cliution & . Value was obtained from a 1:1000 cliution.

NA - The analyte was not analyzed for this compound.

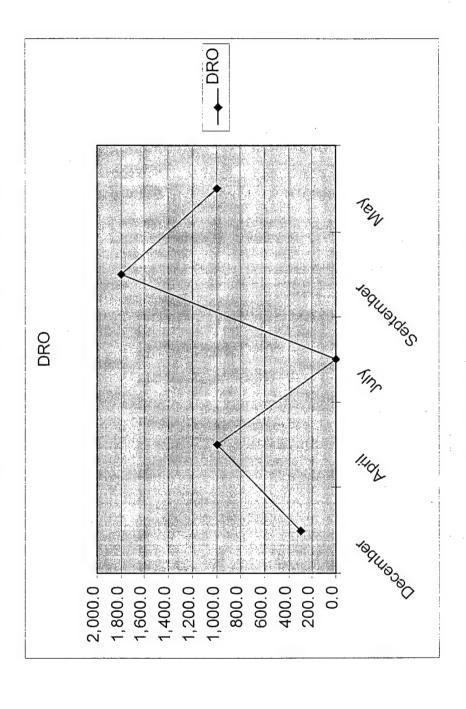
NS - No sample

#### MW-007 GRO GROUNDWATER



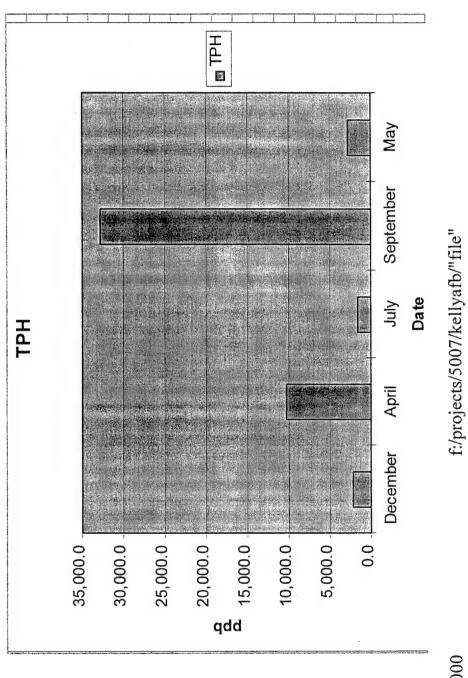
f:/projects/5007/kellyafb/"file"

# MW-007 DRO GROUNDWATER

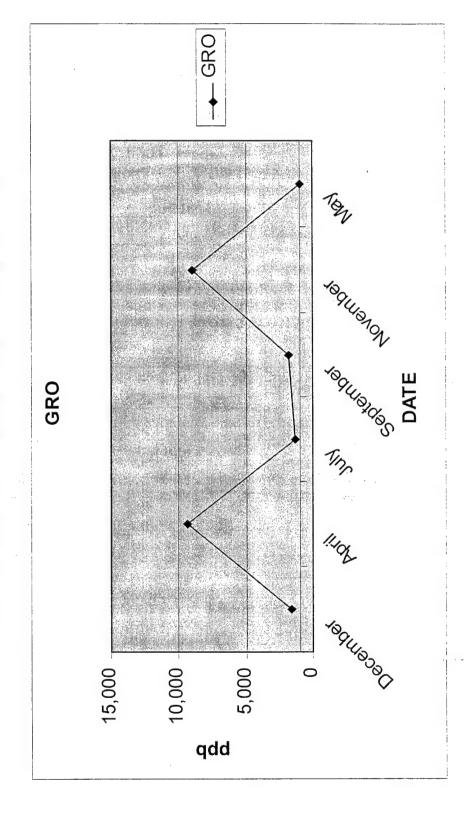


f:/projects/5007/kellyafb/"file"

# MW-007 TPH GROUNDWATER

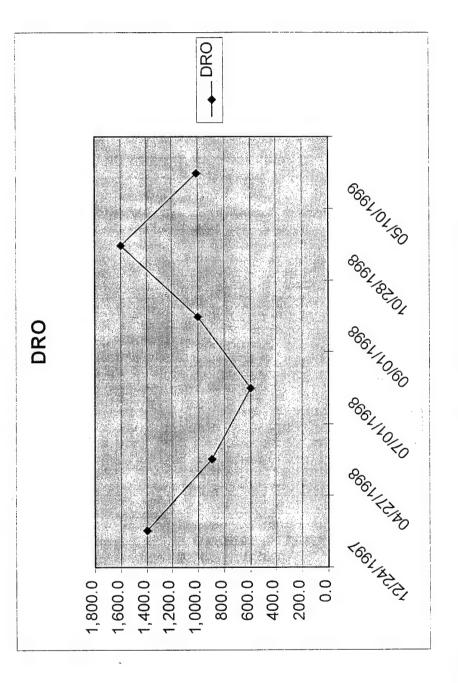


# MW-119 GRO GROUNDWATER



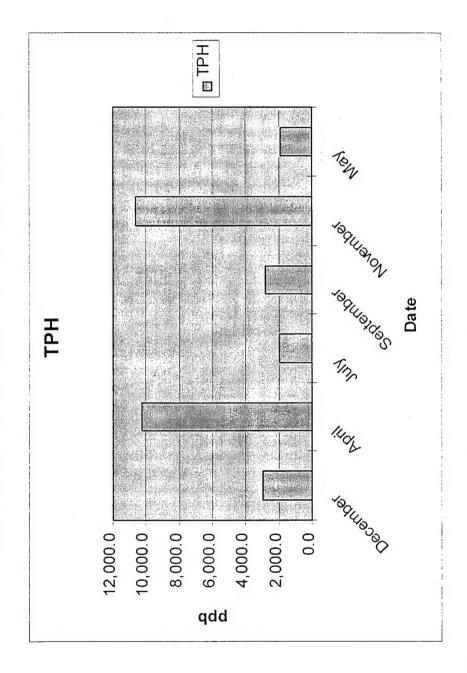
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# MW-119 DRO GROUNDWATER



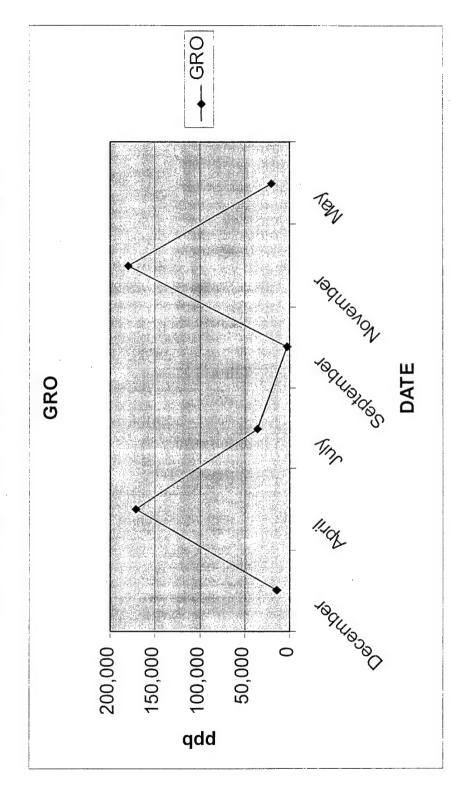
f:/projects/5007/kellyafb/"file"

### MW-119 TPH GROUNDWATER



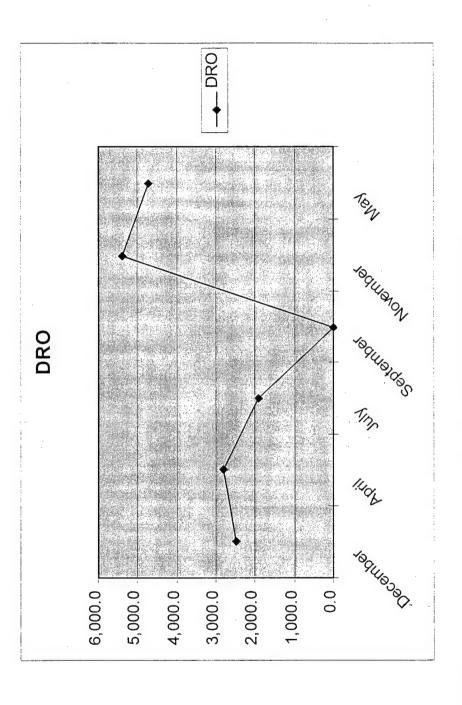
f:/projects/5007/kellyafb/"file"

### MW-120 GRO GROUNDWATER



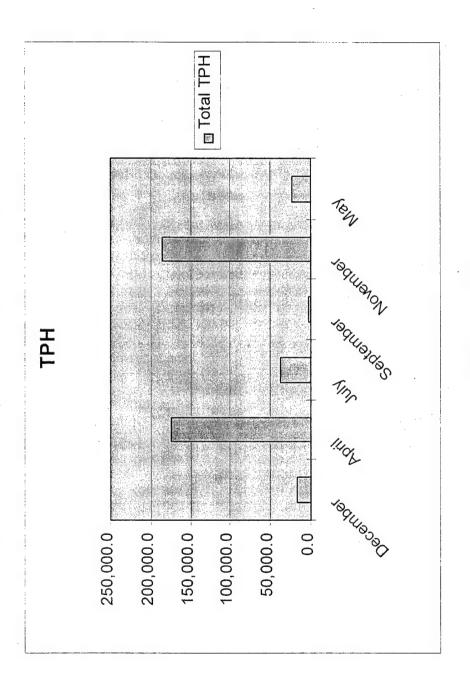
f:/projects/5007/kellyafb/"file"

### MW-120 DRO GROUNDWATER



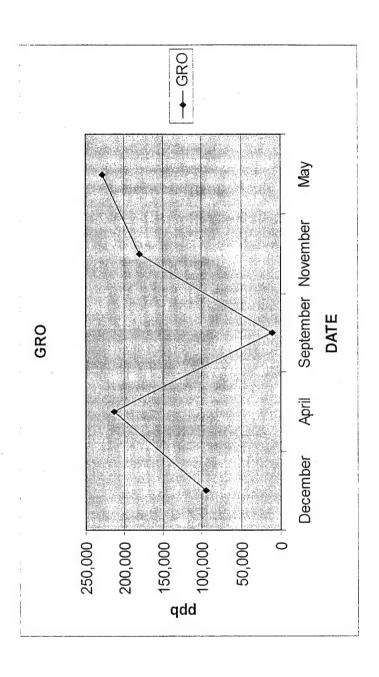
f:/projects/5007/kellyafb/"file"

### MW-120 TPH GROUNDWATER

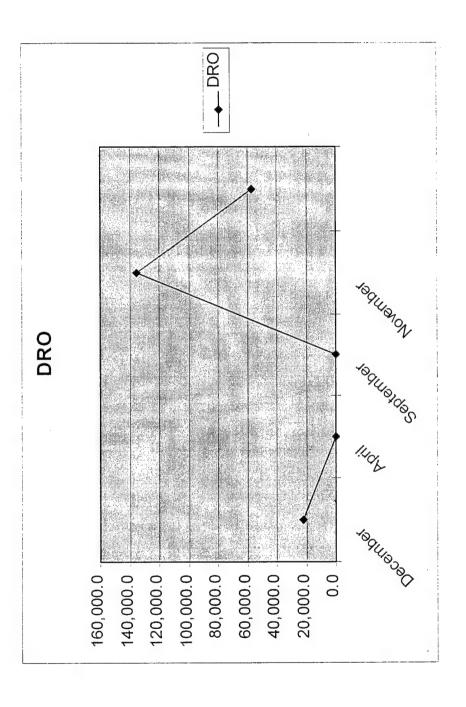


f:/projects/5007/kellyafb/"file"

## MW-121 GRO GROUNDWATER



### MW-121 DRO GROUNDWATER



f:/projects/5007/kellyafb/"file"

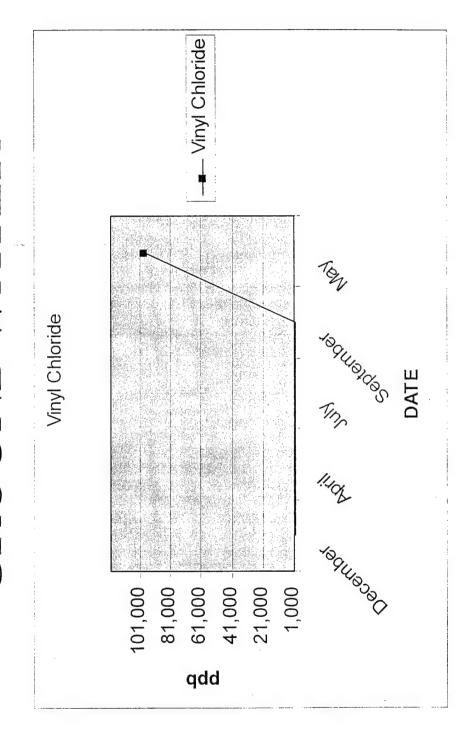
#### Kelly AFB E-1 Site Target VOC Analytes

| Analyzed:         Soli or         Chloride         chloro-   | ample ID | Date       | Matrix  | Vinvi     | 1,1 Di- | Methylene | dwater<br>110i- | Cis-1,2 Di- | Tri-    | Toluene | Chloro- | 1,2-Di- | Total   |
|--|----------|------------|---------|-----------|---------|-----------|-----------------|-------------|---------|---------|---------|---------|---------|
| Water         Gé00 DI         299 B         3 B         654         123 00         9,450         26           04/27/1998         Water         1,400 D         190.0 B         3 B         654         123 00         9,450         26           0/17/1/1998         Water         1,400 D         170.2 B         5 B         650         10,000         1,300         6           0/17/1/1998         Water         1,400 D         7,10 E         2 D         15,000         1,300         6           0/17/1/1998         Water         1,500 D         0 D         2,200         445         80,000         1,300         6           0/17/1/1999         Water         1,500 D         44.1         0 D         1,400 </th <th>•</th> <th></th> <th>Soil or</th> <th>Chloride</th> <th>chloro-</th> <th>chloride</th> <th>chloro-</th> <th>chloro-</th> <th>chloro-</th> <th></th> <th>benzene</th> <th>chloro-</th> <th>VOCS</th>   | •        |            | Soil or | Chloride  | chloro- | chloride  | chloro-         | chloro-     | chloro- |         | benzene | chloro- | VOCS    |
| 17224/1997         weater         6,600 U         129,8         E         3,600         4,400         1,400  |          | ,          | Water   |           | ethene  |           | ethane          | ethene      | ethene  |         |         | benzene |         |
| 10224/1997         Water         6,600 DI         288.8         8         64 112,000         9,400         26           007/1/1998         Water         3,600 D         77.5         E         B         64 112,000         9,400         2           007/1/1998         Water         1,400 D         77.5         E         B         65,000         1,500         6           007/1/1998         Water         1,500 D         0         2,200 D         4,500         1,600         1,00           007/1/1998         Water         1,500 D         0         2,200 D         1,400 D   | MW-007   |            |         |           |         |           |                 |             |         |         |         |         |         |
| OFF/ET/1998         Water         1,000         7,100  |          | 12/24/1997 | water   | 6,600 DI  |         |           | 584             | 123,000     | 9,450   | 26      | 59      | 69      | 140,455 |
| OFFICIATIONS         Waster         74,00 D         71,5 E         3         510         65,000         4,600         8           102E/1938         water         540E         41         1         2,200         26,000         1,000         6 <td< td=""><td></td><td>04/27/1998</td><td>water</td><td>3,600</td><td></td><td></td><td>840</td><td>101,000</td><td>1,800</td><td>1</td><td>20</td><td>130</td><td>107,975</td></td<>  |          | 04/27/1998 | water   | 3,600     |         |           | 840             | 101,000     | 1,800   | 1       | 20      | 130     | 107,975 |
| 09/15/1989         water         544E         4/1         1         250         1,300         6           05/11/1989         water         15,000         0         2,200         465         60,000         10,400         1           10/28/1989         water         5,500 B         410         1         111         14,890         78         55.0           09/15/1989         water         5,500 B         44,1         0         1         1         1         14,890         78         55.0           09/15/1989         water         2,500 B         45,1         0         710         1,400         1         2.2         1         1         1         1         1,400         1         2.2         1 <td></td> <td>07/01/1998</td> <td>water</td> <td>1,400 D</td> <td></td> <td>က</td> <td>510</td> <td>63,000</td> <td>4,600</td> <td>80</td> <td>40</td> <td>25</td> <td>69,926</td>  |          | 07/01/1998 | water   | 1,400 D   |         | က         | 510             | 63,000      | 4,600   | 80      | 40      | 25      | 69,926  |
| 10/28/1999   water   15,000   0   0   2,200   465   68,000   10,400   10, |          | 09/15/1998 | water   | 540 E     | 41      |           | 250             | 18,000      | 1,300   | 9       | 23      | 11      | 32,031  |
| 12/24/1997   water   2,924 E   64.3 E   U   111   14,890   778   55.0   12/24/1997   water   2,924 E   64.3 E   U   111   14,890   778   55.0   16/24/1997   water   2,924 E   64.3 E   U   110   1,400   1/2   29   16   16/24/1998   water   2,500 B   24.0 D   20,500   1/2   29   29   29   29   29   29   29  |          | 10/28/1998 | wafer   | 15,000    | 0       | 2,200     |                 | 68,000      | 0       |         |         |         | 85,200  |
| 12/24/1997   Water   2,924 E   84,3 E   U   111   14,890   T8   55.0   T8   T8   T8   T8   T8   T8   T8   T  |          | 05/11/1999 | water   | 98,600 D  | 0       | D         | 465             | 80,000      | 10,400  |         | 11,800  | 3,350   | 204,615 |
| 04/27(1995)         water         2,594 E         84.3 E         U         111         14,890         78         56.0           07/07(1998)         water         5,560 B         44.1         U         100         1,400         7         28           07/07(1998)         water         5,560 B         44.1         T         U         10         1,400         T         28           10/28(1998)         water         5,760 B         0         710         7         16,000         0         7         20,500         0         7         28         28         0         0         0         7         10,20(1999)         47         333,795         104,940         859         0         0         7         0         7,500         0         7         0         7,500         0         7         0         7,500         0         7         0         10,224(1997)         447         333,795         10,4940         859         0         0         7         0         7         10         7         28         0         0         0         0         0         10,500         0         0         0         0         0         0         0 <td< td=""><td>MW-119</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>   | MW-119   |            |         |           |         |           |                 |             |         |         |         |         |         |
| 07/07/1998         water         5,560 &         51.0         U         72         14,500         16         16           09/15/1998         water         8,900 D         57         1         1         1         14,400         12         28           09/15/1998         water         7,600 \$         57         1         1         1         1         20         1         28         28           05/15/1998         water         40,000 D         0         710         72         1,400         1         28         28           15/22/1998         water         40,000 D         0         710         72         1,400         1         28         28           15/22/1998         water         4,000 D         0         710         74         34,000         850  |          | 12/24/1997 | water   | 2,924 E   |         | ס         | 111             | 14,890      | 78      | 55.0    | 190     | 310     | 19,103  |
| 07/07/199B         water         8,900 D         44.1         U         100         1,400         7         28           10/28/199B         water         7,600 \$         57         10         72         19,000         12         29           10/28/199B         water         5,050 D         0         710         770         16,000         0         20           05/10/199B         water         5,056 D         89 ED         142         333,796         104,940         859           10/28/199B         water         8,690 D         89 ED         16,000         7,00         360           10/28/199B         water         2,200 E         2,800 E         640 FD         16,000         45,000         280           10/28/199B         water         2,500 E         2,800 E         6,950 D         43,000         44,000         5,200 B           10/28/199B         water         1,000 D         3,400 D         1,140 B         334,000 B         5,300 B         5,300 B         49,500 B         49,700 B         40,700 B         40,700 B <th< td=""><td></td><td>04/27/1998</td><td>wafer</td><td>5,560 &amp;</td><td>51.0</td><td>D</td><td>88</td><td>16,500</td><td>6</td><td>16</td><td>180</td><td>370</td><td>23,076</td></th<>  |          | 04/27/1998 | wafer   | 5,560 &   | 51.0    | D         | 88              | 16,500      | 6       | 16      | 180     | 370     | 23,076  |
| 09/16/1998         water         7,600 \$         37         U         77         19,000         12         29           10/28/1998         water         6,700         0         710         710         72,000         0           10/28/1998         water         40,000         0         710         740         20,500         0           04/28/1998         water         40,000         640 FD         16         396         104,940         859           04/28/1998         water         7,600         640 FD         16         390         22,000         7,600         330           09/15/1998         water         2,200         640 FD         16         390         22,000         7,600         330           10/28/1998         water         2,200         2,200         7,600         3,400         1,400         35,700         3,00           10/28/1998         water         2,200         3,400         1,414         394,000         57,800         45,000         3,00           10/28/1998         water         1,500         2,820         1,416         394,000         45,000         3,00           10/28/1998         water         1,500         2,82  |          | 07/01/1998 | water   | 8,900 D   | 44.1    | D         | 100             | 1,400       | 7       | 28      | 210     | 220     | 11,162  |
| 10/26/1996   water   5,700   |          | 09/15/1998 | water   | \$ 009'2  | 57      | n         | 72              | 19,000      | 12      | 29      | 200     | 310     | 27,575  |
| 05/10/1999         water         40,000 D         0         118 BD         474         333,795         104,940         859           12/24/1997         water         6,958 DI         536.5 D         116 BD         474         333,795         104,940         859           04/29/1996         water         8,690 D         640 FD         16         330         22,000         110,000         960           09/15/1996         water         2,206 E         2,00         1,140         340,000         52,000         280           09/15/1996         water         2,206 E         2,286 D         1,140         34,000         57,000         280           09/15/1996         water         1,600 D         2,286 D         1,140 D         34,000         57,000         280           09/17/1996         water         1,600 D         2,286 D         1,140 D         34,000         57,000         370           10/22/1996         water         1,500 D         2,100 BD         49,000         430,000         57,000         57,00           10/22/1996         water         1,500 E         1,560 D         1,560 D         1,560 D         44,000         1,100 BD         43,000         430,000         57,00 <td></td> <td>10/28/1998</td> <td>water</td> <td>5,700</td> <td>0</td> <td>710</td> <td></td> <td>16,000</td> <td>0</td> <td></td> <td></td> <td></td> <td>22,410</td>   |          | 10/28/1998 | water   | 5,700     | 0       | 710       |                 | 16,000      | 0       |         |         |         | 22,410  |
| 12/24/1997         water         6,988 DI         536.5 D         118 BD         474         333,795         104,940         859           04/29/1998         water         8,690 D         800 FD         950 BD         740         340,000         110,900         960           07/01/1998         water         7,600 D         640 FD         16         390         22,000         7,600         330           09/15/1998         water         2,200 E         230         22,000         7,600         380           09/15/1998         water         2,200 E         2,660         0         1,140         39,000         57,000         330           05/11/1999         water         1,600 D         3,400 D         2,100 BD         43,600         57,00         57,00           09/15/1998         water         1,700 E         1,800 E         660 E         990         75,00         430,000         5,700           09/15/1998         water         1,700 E         1,800 E         660 E         990         75,00         430,00         5,700         5,700           09/15/1998         water         1,500 E         1,900 E         660 E         990         7,00         4,00         7,00   |          | 05/10/1999 | water   | 40,000 D  | 0       |           |                 | 20,500      | 0       |         | 985     | 675     | 62,520  |
| 12/24/1997   water   | MW-120   |            |         |           |         |           |                 |             |         |         |         |         |         |
| Q4/29/199B         water         8,690 D         890 FD         950 BD         740         340,000         110,000         960           07/01/199B         water         7,600 D         230         16         10         339         22,000         7,600         280           10/28/199B         water         2,200 E         2,600         1,140         394,000         45,000         280           10/28/199B         water         2,600 D         2,800 D         1,140         394,000         57,300         280           12/24/199C         water         1,600 D         3,400 D         2,100 BD         43,000         43,000         6,700           04/28/199B         water         1,800 E         60 D         43,000         43,000         5,700           10/28/199B         water         1,200 E         5,780 D         4,400 D         1,300         46,000         5,700           10/28/199B         water         1,200 E         5,780 D         1,980 E         6,800 D         45,000         5,700           10/28/199B         water         5,800 D         1,300         1,300         46,000         3,000         40,000         5,700           10/28/199B         water   |          | 12/24/1997 | water   | 6,958 DI  |         | 118 BD    | 474             | 333,795     | 104,940 | 859     | 151     | 401     | 449,810 |
| 07/01/1998         water         7,600 D         640 FD         16         390         22,000         7,600         330           09/16/1998         water         2,200 E         230 E         0         8,500         0         280,000         280,000         280           10/28/1998         water         2,200 E         2,660         0         1,140         34,000         52,000         280           05/11/1998         water         1,600 D         2,826 D         1,140         34,000         57,000         6,700           09/16/1998         water         1,600 D         2,100 D         2,100 D         43,625         497,875         5,337           09/16/1998         water         1,500 E         1,300 D         4,400 D         1,300 D         45,000 D         5,700 D           10/28/1998         water         1,200 E         5,780 D         4,400 D         1,300 D         46,000 D         45,000 D         5,700 D           09/16/1998         water         1,200 E         5,780 D         1,300 D         46,000 D         450,000 D         470 D         1,700 D  |          | 04/29/1998 | water   | 8,690 D   | )       |           | 740             | 340,000     | 110,000 | 096     |         | 440     | 464,380 |
| 09/15/1998         water         2,200 E         230 E         U         300         280,000         45,000         280           10/28/1998         water         35,900 E         2,660         1,140         394,000         57,800         5,200           10/28/1998         water         1,600 D         2,826 D         1,125 BD         799         43,625         497,875         5,337           09/12/1/998         water         1,600 D         3,400 D         2,100 BD         900         42,000         5,700         5,700           09/12/1/998         water         1,200 E         5,700 D         1,900 E         4,400         1,300 D         480,000         5,700           09/12/1/998         water         1,200 E         5,780 D         1,960 D         2,120 D         490,000 D         5,700           10/28/1/998         water         1,200 E         5,780 D         1,960 D         2,120 D         4400 D         4,700 D         4,700 D           10/28/1/998         water         5,580 D         139,5 D         107 BD         156 D         24,00 D         3,000 D         470 D         1,077 D <td< td=""><td></td><td>07/01/1998</td><td>water</td><td>7,600 D</td><td>1</td><td></td><td>390</td><td>22,000</td><td>7,600</td><td>330</td><td>38</td><td>260</td><td>39,386</td></td<>  |          | 07/01/1998 | water   | 7,600 D   | 1       |           | 390             | 22,000      | 7,600   | 330     | 38      | 260     | 39,386  |
| 10/28/1998         water         0         8,500         - 250,000         52,000           05/11/1999         water         35,900 E         2,660         1,140         334,000         57,800           12/24/1997         water         966 D         2,826 D         1,125 BD         799         43,625         497,875         5,337           04/28/1998         water         1,500 D         3,400 D         2,100 BD         900         42,000         480,000         5,700           10/28/1998         water         1,700 E         1,800 E         6,60 E         990         75,000         480,000         3,200           10/28/1998         water         1,700 E         1,300         4,400         1,300         45,000         430,000         5,700           10/28/1998         water         5,560 D         139,5 D         107 BD         156         21,32         47,000         47,000         47,000           10/28/1998         water         5,560 D         130,5 B         107 BD         156         21,32         1,077         177           10/28/1998         water         5,600 D         130,0         0         7,00         43,000         1,07           10/28/1998  |          | 09/15/1998 | water   | 2,200 E   |         | D         | 300             | 280,000     | 45,000  | 280     | 40      | 120     | 328,855 |
| 05/11/1999         water         35,900 E         2,660         U         1,140         394,000         57,800           12/24/1997         water         1,600 D         2,826 D         1,125 BD         799         42,000         57,000         6,700           09/15/1998         water         1,700 E         1,800 D         2,100 BD         990         75,000         490,000         5,700           10/28/1998         water         1,700 E         1,800 D         4,400 E         1,300         46,000         490,000         5,700           10/28/1998         water         1,200 E         5,780         1,560 D         1,300         46,000         491,000         5,700           09/15/1998         water         1,200 E         1,395 D         107 BD         1,300         430,000         470           04/27/1998         water         5,660 D         49.5 D         0         100         15,000         3,800         470           09/21/1998         water         5,880 D         0         7         1,825         1,825         1,000         1,900         1,900         1,900         1,825         1,000         1,077         1,077         1,077         1,077         1,077         1,077  |          | 10/28/1998 | water   |           | 0       | 8,500     | .2              | 250,000     | 52,000  |         |         |         | 310,500 |
| 12/24/1997   water   966 D   2,826 D   1,125 BD   799   43,625   497,875   5,337     04/29/1998   water   1,600 D   3,400 D   2,100 BD   900   42,000   57,000   6,700     05/11/1998   water   12,000 E   5,780   1,360   2,120   94,000   491,000   5,700     05/11/1998   water   12,000 E   5,780   1,360   2,120   94,000   491,000   5,700     05/11/1998   water   12,000 E   5,780   1,390   1,360   2,120   94,000   491,000   5,700     05/11/1998   water   12,000 E   5,780   1,390   1,390   1,390   1,390   1,000     05/11/1998   water   5,880 D   49.5   0   100   15,000   23   850     05/11/1998   water   15,000 D   49.5   0   100   15,000   0     05/11/1998   water   15,000 D   98   4   152   101,000   7   3,040     05/11/1998   water   15,000 D   98   4   152   101,000   7   3,040     05/11/1998   water   15,000 D   31.3   0   111 BD   132   29,770   484   86     05/11/1998   water   5,400 D   31.3   0   410   413   1,000   7   13     05/11/1998   water   5,400 D   31.3   0   410   413   1,000   7   13     05/11/1998   water   4,900 D   172 E   2   90   9,870   0     05/11/1998   water   4,900 D   172 E   2   90   9,870   8   305     05/11/1998   water   4,900 D   172 E   2   90   9,870   8   305     05/11/1998   water   15,400 D   172 E   2   90   9,870   0     05/11/1998   water   15,400 D   172 E   2   90   9,870   0     05/11/1998   water   15,400 D   172 E   2   90   9,870   0     05/11/1998   water   15,400 D   172 E   2   90   9,870   0     05/11/1998   water   15,400 D   172 E   2   90   9,870   0     05/11/1998   water   15,400 D   172 E   2   90   9,870   0     05/11/1998   water   15,400 D   172 E   2   90   9,870   0     05/11/1998   water   15,400 D   172 E   2   90   9,870   0     05/11/1998   water   15,400 D   172 E   2   90   9,870   0     05/11/1998   water   15,400 D   172 E   2   90   9,870   0     05/11/1998   water   15,400 D   172 E   2   1   1   1   1   1   1   1   1   1  |          | 05/11/1999 | water   | 35,900 E  | 2,660   | ח         | 1,140           | 394,000     | 57,800  |         |         | 165     | 494,015 |
| 12/24/1997         water         966 D         2,826 D         1,125 BD         799         43,625         497,875         5,337           04/29/1998         water         1,600 D         3,400 D         2,100 BD         900         42,000         57,000         6,700           09/15/1998         water         1,700 E         1,800 E         660 E         990         75,000         480,000         5,700           10/28/1998         water         2,200         3,000 E         4,400         1,300         46,000         430,000         5,700           12/24/1997         water         5,560 D         139,5 D         107 BD         156         21,32         1,007         470           04/27/1998         water         5,660 D         139,5 D         107 BD         156         21,32         1,007         470           05/21/1998         water         5,080 D         0         790         70         16,000         7         7         3,040           10/28/1998         water         5,080 D         0         790         760         10,000         7         3,040           12/24/1997         water         6,400 B         72.0 B         0         70,000         10,000<   | MW-121   |            |         |           |         |           |                 |             |         |         |         |         |         |
| 09/15/1998         water         1,600 D         3,400 D         2,100 BD         900         42,000         57,000         6,700           10/28/1998         water         1,700 E         1,800 E         660 E         990         75,000         480,000         5,700           10/28/1998         water         2,200         3,000         4,400         1,300         46,000         491,000         5,700           05/11/1999         water         12,000 E         5,780         1,960         2,120         94,000         491,000         5,700           05/11/1999         water         5,560 D         139,5 D         107 BD         156         21,320         1,077         177           04/27/1998         water         5,600 D         49,5 D         0         70         100         15,000         3,800         470           09/21/1998         water         6,800 D         0         790         16,000         3,800         1,077         177           10/28/1998         water         4,900         0         7         11,000         7         3,040           10/28/1998         water         1,500 D         98         4         15,000         2,200         2,200   |          | 12/24/1997 | water   | 0 996     | l       | 1,125     | 799             | 43,625      | 497,875 | 5,337   | 29      | 351     | 556,882 |
| 09/15/199B         water         1,700 E         1,800 E         660 E         990         75,000         480,000         3,200           10/28/199B         water         2,200         3,000 B         4,400 B         1,300 B         46,000 B,000 B         5,700 B           10/28/199B         water         12,000 E         139.5 D         107 BD         156 D         1,077 B         177           12/24/1997         water         5,560 D         139.5 D         107 BD         150 BD         1,077 B         177           04/27/199B         water         5,800 D         49.5 D         0         100 B         15,000 B         23 B         550 B           09/21/199B         water         5,080 D         0         790 B         16,000 B         0         100 B         1,825 B         0           09/21/199B         water         4,900 B         0         7         101,000 B         0         100 B         1,825 B         0   |          | 04/29/1998 | water   | 1,600 D   |         | 2,100     | 006             | 42,000      | 57,000  | 6,700   |         | 530     | 117,580 |
| 10/28/1998         water         2,200         3,000         4,400         1,300         46,000         430,000         5,700           05/11/1999         water         12,000 E         5,780         1,960         2,120         94,000         491,000         9,010           12/24/1997         water         5,560 D         139.5 D         107 BD         156         21,320         1,077         177           04/27/1998         water         6,800 D         49.5 D         0         70         100         15,000         23         550           09/21/1998         water         6,800 D         0         790         16,000         1,825         1           10/28/1998         water         4,900 D         0         790         16,000         0         7         3,040           12/24/1997         water         159,000 D         98         4         152         101,000         7         3,040           04/27/1998         water         6,400 &         72.0 E         U         11         BB         2,200         2,200         26         11         13           09/15/1998         water         6,600 \$         59         U         1,100         1,100 <td></td> <td>09/15/1998</td> <td>water</td> <td>1,700 E</td> <td></td> <td>099</td> <td>066</td> <td>75,000</td> <td>480,000</td> <td>3,200</td> <td>12</td> <td>270</td> <td>566,639</td>   |          | 09/15/1998 | water   | 1,700 E   |         | 099       | 066             | 75,000      | 480,000 | 3,200   | 12      | 270     | 566,639 |
| 05/11/1999         water         12,000 E         5,780         1,960         2,120         94,000         491,000         9,010           12/24/1997         water         5,560 D         139.5 D         107 BD         156         21,320         1,077         177           04/27/1998         water         7,780 &         150.0 &         5 B         210         42,000         3,800         470           09/21/1998         water         5,080 D         0         790         790         15,000         23         550           09/21/1998         water         4,900 D         0         790         76,000         0         73,040           12/24/1997         water         7,710 D         0         711 BD         132         29,770         484         86           09/21/1998         water         6,400 &         72.0 E         U         111 BD         132         29,770         7         13           09/21/1998         water         6,400 &         72.0 E         U         43         1,000         7         13           09/12/1998         water         6,400 &         59         0         1,100         61         2,200         6         13   |          | 10/28/1998 | water   | 2,200     | 3,000   | 4,400     | 1,300           | 46,000      | 430,000 | 5,700   |         |         | 492,600 |
| 12/24/1997         water         5,660 D         139.5 D         107 BD         156         21,320         1,077         177           04/27/1998         water         7,780 & 150.0 & 5 B         210         42,000         3,800         470           07/01/1998         water         6,800 D         49.5         0         100         15,000         23         550           10/28/1998         water         4,900         0         790         16,000         0         26,305         1,825         0           10/28/1998         water         4,900         0         790         4         152         101,000         7         3,040           05/11/1999         water         159,000 D         98         4         152         101,000         7         3,040           12/24/1997         water         6,400 & 72.0 E         U         111 BD         132         2,200         26         110           09/15/1998         water         6,600 \$         59         U         61         22,000         6         130           10/28/1998         water         4,900         172 E         2         90         9,870         9,870  |          | 05/11/1999 | water   | 12,000 E  | 5,780   | 1,960     | 2,120           | 94,000      | 491,000 | 9,010   |         | 210     | 617,455 |
| 12/24/1997         water         5,660 D         139,5 D         107 BD         156         21,320         1,077         177           04/27/1998         water         7,780 & 150,0 B         49,5 D         0         100         42,000         3,800         470           07/01/1998         water         6,800 D         0         790         16,000         2         550           10/28/1998         water         4,900         0         790         16,000         0         7           05/11/1999         water         159,000 D         98         4         152         101,000         7         3,040           12/24/1997         water         6,400 & 72.0 E         U         111 BD         132         29,770         484         86           04/27/1998         water         6,400 & 72.0 E         U         43         1,000         7         110           09/15/1998         water         6,600 \$         59         U         61         22,000         6         130           05/11/1999         water         4,900         172 E         2         90         9,870         6         130   | MW-122   |            |         |           |         |           |                 |             |         |         |         |         |         |
| 04/27/1998         water         7,780 & 150.0 & 5 B         5 B         210         42,000         3,800         470           07/01/1998         water         6,800 D         49.5         0         100         15,000         23         550           10/28/1998         water         5,080 D         0         790         16,000         0         760           10/28/1998         water         4,900         0         790         4         152         101,000         7         3,040           05/11/1999         water         7,710 D         U         111 BD         132         29,770         484         86           04/27/1998         water         6,400 & 72.0 E         U         43         1,000         7         13           09/15/1998         water         6,600 \$         59         U         61         22,000         6         130           10/28/1998         water         4,900         172 E         2         90         9,870         6         130  |          | 12/24/1997 | water   | 5,560 D   |         |           | 156             | 21,320      | 1,077   | 177     | 370     |         | 29,129  |
| 07/01/1998         water         6,800 D         49.5         0         100         15,000         23         550           09/21/1998         water         5,080 D         0         790         16,000         0         730         1,825         1,825         1           10/28/1998         water         4,900         0         790         4         152         101,000         7         3,040           05/11/1999         water         7,710 D         U         111 BD         132         29,770         484         86           04/27/1998         water         6,400 &         72.0 E         U         43         1,000         7         13           09/15/1998         water         6,600 \$         59         U         61         22,000         6         130           10/28/1998         water         4,900         172 E         2         90         9,870         8         305  |          | 04/27/1998 | water   | 7,780 &   |         |           | 210             | 42,000      | 3,800   | 470     | 650     | 940     | 56,655  |
| 09/21/1998         water         5,080 D         0         790         1,626         1,825         1,825         1,825         1,825         1,825         1,825         1,825         1,825         1,825         1,825         1,825         1,825         1,825         1,826         1,825         1,826         1,825         1,825         1,925 <t< td=""><td></td><td>07/01/1998</td><td>water</td><td>6,800 D</td><td>49.5</td><td>0</td><td>100</td><td>15,000</td><td>23</td><td>550</td><td>220</td><td>300</td><td>23,274</td></t<>   |          | 07/01/1998 | water   | 6,800 D   | 49.5    | 0         | 100             | 15,000      | 23      | 550     | 220     | 300     | 23,274  |
| 10/28/1998         water         4,900         0         790         16,000         0           05/11/1999         water         159,000 D         98         4         152         101,000         7         3,040           12/24/1997         water         7,710 D         U         111 BD         132         29,770         484         86           04/27/1998         water         6,400 &         72.0 E         U         43         1,000         7         13           09/15/1998         water         6,600 \$         59         U         61         22,000         6         130           10/28/1998         water         4,900         172 E         2         90         9,870         8         305   |          | 09/21/1998 | water   | 2,080 D   | 0       |           |                 | 26,305      | 1,825   |         |         |         | 33,210  |
| 05/11/1999         water         159,000 D         98         4         152         101,000         7         3,040           12/24/1997         water         7,710 D         U         111 BD         132         29,770         484         86           04/27/1998         water         6,400 &         72.0 E         U         43         1,000         7         110           09/15/1998         water         6,600 \$         59         U         61         22,000         6         130           10/28/1998         water         4,900         172 E         2         90         9,870         8         305  |          | 10/28/1998 | water   | 4,900     | 0       | 790       |                 | 16,000      | 0       |         | 550     | 069     | 22,930  |
| 12/24/1997         water         7,710 D         U         111 BD         132         29,770         484           04/27/1998         water         6,400 &         72.0 E         U         86         2,200         26         1           07/01/1998         water         5,400 D         31.3         U         43         1,000         7         1  |          | 05/11/1999 | water   | 159,000 D | 86      | 4         | 152             | 101,000     | 7       | 3,040   | 000'9   | 2,920   | 273,742 |
| water         7,710 D         U         111 BD         132         29,770         484           water         6,400 &         72.0 E         U         86         2,200         26         1           water         5,400 D         31.3         U         43         1,000         7         1           water         4,900         172 E         2         90         9870         8         3   | MW-124   |            |         |           |         |           |                 |             |         |         |         |         |         |
| water         6,400 & 72.0 E         U         86         2,200         26           water         5,400 D         31.3         U         43         1,000         7           water         6,600 \$         59         U         61         22,000         6           water         4,900         170 E         2         90         9870         8   |          | 12/24/1997 | water   | 7,710 D   | ก       | 1         | 132             | 29,770      | 484     | 98      | 513     | 906     | 40,516  |
| water         5,400 D         31.3         U         43         1,000         7           water         6,600 \$         59         U         61         22,000         6         1           water         4,900         172 E         2         90         9870         8         3  |          | 04/27/1998 | water   | 6,400 &   |         |           | 98              | 2,200       | 26      | 110     | 200     | 770     | 10,854  |
| water         6,600 \$         59         U         61         22,000         6           water         4,900         1,100         38,000         0           water         18,100 D         172 E         2         90         9,870         8   |          | 07/01/1998 | water   | 5,400 D   | 31.3    | n         | 43              | 1,000       | 7       | 13      | 320     | 400     | 7,447   |
| water         4,900         1,100         38,000         0           water         18,100 D         172 E         2         90         9,870         8   |          | 09/15/1998 | water   | \$ 009'9  | 59      | j<br>j    | 61              | 22,000      | 9       | 130     | 470     | 410     | 30,261  |
| water 18,100 D 172 E 2 90 9,870 8  |          | 10/28/1998 | water   | 4,900     |         | 1,100     |                 | 38,000      | 0       |         |         |         | 44,000  |
|  |          | 05/11/1999 | water   | 18,100 D  | 172 E   | 2         | 06              | 9,870       | 8       | 305     | 591     | 301     | 30,505  |

#### Kelly AFB E-1 Site Target VOC Analytes Groundwater

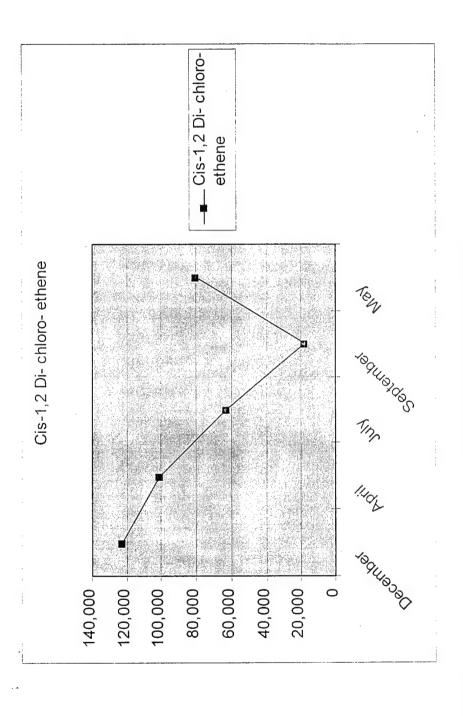
| Widner   Chicago   Chica | Samuel In. | 27.50      |         | Massil    |         | 8804b-01000 | (V * *  | 10 c F 310 |         | Tolling | Chick   | 14 6 7  | 1,000   |
|--|------------|------------|---------|-----------|---------|-------------|---------|------------|---------|---------|---------|---------|---------|
| 1224/1929   Water   6,000   1,290   6   6   6   6   6   6   6   6   6  | i<br>1     | Analyzed:  | Soil or | Chloride  | chloro- | chloride    | chloro- | chloro     | chloro- |         | benzene | chloro- | VOCS    |
| 12/24/1999   Watter   6,600 D  28,9 E   9 B   654   123,000   9,450   16 0   15 0    |            |            | Water   |           | ethene  |             | ethane  | ethene     | ethene  |         |         | benzene |         |
| 1224/1989   water   5,600   1,000    | MW-007     |            |         |           |         |             |         |            |         |         |         |         |         |
| OFFICIATION NAME         SAGO         T190.0         ALGO         T1800         ALGO         ALGO </td <td></td> <td>12/24/1997</td> <td>water</td> <td>6,600 DI</td> <td></td> <td></td> <td>584</td> <td>123,000</td> <td>9,450</td> <td>26</td> <td>29</td> <td>69</td> <td>140,455</td>   |            | 12/24/1997 | water   | 6,600 DI  |         |             | 584     | 123,000    | 9,450   | 26      | 29      | 69      | 140,455 |
| OFFICINTIONISMS         Watter         1,440 D         71.5 E         43         261         68,000         1,490 D         71.5 E         40         21           10/28/1989         watter         5600 D         0         2,200 D         465         68,000 D         1,400 D         1,400 D         1,400 D         3,350 D         1,400 D         1,  |            | 04/27/1998 | water   | 3,600     |         |             | 840     | 101,000    | 1,800   | 1       | 20      | 130     | 107,975 |
| 10,2241999   water   15,000   0   2,00   0   45   80,000   0   0   0   0   0   0   0   0   |            | 07/01/1998 | water   | 1,400 D   |         | က           | 510     | 63,000     | 4,600   | 8       | 40      | 25      | 69,926  |
| 10224/1999   water   15,000   0   0   2,200   456   80,000   10,400   11,400   3,350   2,000   10,400   10,400   10,400   3,350   2,000   10,400   10,400   10,400   3,350   2,000   10,400   10,400   10,400   3,350   2,000   10,400   10 |            | 09/15/1998 | water   | 540 E     | 41      | -           | 250     | 18,000     | 1,300   | 9       | 23      | 11      | 32,031  |
| 1224/1999   water   98,600   0   0   0   114,800   114,800   3150   3160   31 |            | 10/28/1998 | water   | 15,000    | 0       | 2,200       |         | 68,000     | 0       |         |         |         | 85,200  |
| 12024/1995   water   2,924 E   94,3 E   U   111   14,850   T   2,924 E   310 |            | 05/11/1999 | water   | 98,600 D  | 0       | ס           | 465     | 80,000     | 10,400  |         | 11,800  | 3,350   | 204,615 |
| 1,224/1998   water   2,34 E   54.3 E   U   114   14890   778   55.6   190   310    | MW-119     |            |         |           |         |             |         |            |         |         |         |         |         |
| OFF/27719999         water         5,560 B         5 570 D         710         100         11,400         72         22         20         210         270           OFF/2771999         water         6,500 D         677 D         710         770         14,000         72         22         20         210   |            | 12/24/1997 | water   | 2,924 E   |         | D           | 111     | 14,890     | 78      | 55.0    | 190     | 310     | 19,103  |
| OFFICIATION         Walter         B,900 D         44.1         U         100         1,400         T         20         200         220         310           OFFICIATIONS         walter         5,600 D         0         770         170         72         16,000         0         985         675           10728/1986         walter         6,700 D         0         770         148 D         474         33,3785         149,490         865         151         401         401           10728/1986         walter         6,500 D         630 ED         118 BD         474         33,3785         149,490         866         151         401         401           007/20/1986         walter         2,500 D         630 ED         16         740         330         220,000         45,000         330         38         240         401 <th< td=""><td></td><td>04/27/1998</td><td>water</td><td>5,560 &amp;</td><td>51.0</td><td>ס</td><td>88</td><td>16,500</td><td>6</td><td>16</td><td>180</td><td>370</td><td>23,076</td></th<>   |            | 04/27/1998 | water   | 5,560 &   | 51.0    | ס           | 88      | 16,500     | 6       | 16      | 180     | 370     | 23,076  |
| OFFICIOR Water         FARON STORE STORE         677         1         72         18,000         12         220         310           OFFICIORS Water         \$7700 D         0         710         710         710         61,000         0         675         675           0.07/07/1939         water         \$7700 D         0         118 BD         474         333,785         104,940         889         151         401         4         4           1.02/07/1939         water         \$6.900         6.900         110,000         960         150         440         4         4         440         4         4         440         4         4         440         4         4         440         4         4         440         4         4         4         440         4         4         440         4         4         440         4         4         440         4 </td <td></td> <td>07/01/1998</td> <td>water</td> <td>8,900 D</td> <td>44.1</td> <td>ס</td> <td>100</td> <td>1,400</td> <td>7</td> <td>28</td> <td>210</td> <td>220</td> <td>11,162</td>   |            | 07/01/1998 | water   | 8,900 D   | 44.1    | ס           | 100     | 1,400      | 7       | 28      | 210     | 220     | 11,162  |
| 10/28/1999   water   |            | 09/15/1998 | water   | \$ 009'2  | 57      | D           | 72      | 19,000     | 12      | 29      | 200     | 310     | 27,575  |
| 1224/1997   Water   6,948 DI   656,5 D   118 BD   474   333,795   104,940   859   161   401    |            | 10/28/1998 | water   | 5,700     | 0       | 710         |         | 16,000     | 0       |         |         |         | 22,410  |
| 1224/1997   Water   6,986 D  899 FD  118 BD   474   333,795   104,940   865   151   440  |            | 05/10/1999 | water   | 40,000 D  | 0       |             |         | 20,500     | 0       |         | 985     | 675     | 62,520  |
| 12/24/1997   water   6,568 D  586, D  118 BD   474   333,736   104,940   869   151   440   44   44   44   44   44   44   | MW-120     |            |         |           |         |             |         |            |         |         |         |         |         |
| 04/20/1998         water         8,660 D         680 F D         160 B         740 B         7400 B         740 B  |            | 12/24/1997 | water   | 6,958 Di  |         |             | 474     | 333,795    | 104,940 | 859     | 151     | 401     | 449,810 |
| 0915/11/1999         water         7,600 D         640 FD         16         390         22,000         7,600         280         40         120         3           10915/11/1999         water         2,200 E         2,500 D         8,500 D         1,140         360,000         67,000         280,000         40         120         1 </td <td></td> <td>04/29/1998</td> <td>water</td> <td>8,690 D</td> <td></td> <td></td> <td>740</td> <td>340,000</td> <td>110,000</td> <td>096</td> <td></td> <td>440</td> <td>464,380</td>  |            | 04/29/1998 | water   | 8,690 D   |         |             | 740     | 340,000    | 110,000 | 096     |         | 440     | 464,380 |
| 09/15/1999         water         2,200 E         2,500         45,0  |            | 07/01/1998 | water   | 7,600 D   |         | 16          | 390     | 22,000     | 7,600   | 330     | 38      | 260     | 39,386  |
| 10/28/1996   water   35,900   2,660   1,125 BD   799   43,625   497,875   5,337   29   351   5   460   1,125 BD   1,125 BD   1,125 BD   1,126 |            | 09/15/1998 | water   | 2,200 E   |         | D           | 300     | 280,000    | 45,000  | 280     | 40      | 120     | 328,855 |
| 12/24/1997   water   35,900 E   2,826 D   1,125 BD   7599   43,625   497,875   5,337   299   351   5   4   4   4   4   4   4   4   4   4   |            | 10/28/1998 | water   |           | 0       | 8,500       |         | 250,000    | 52,000  |         |         |         | 310,500 |
| 12/24/1997         water         966 D         2,826 D         1,125 BD         799         43,625         67,000         67,000         67,000         530         1           04/28/1998         water         1,600 D         3,400 D         2,100 BD         900         42,000         67,000         6,700         530         1           09/15/1998         water         1,500 E         6,60 E         990         42,000         480,000         6,700         12         270         570           10/28/1998         water         1,500 E         6,60 E         990         75,000         480,000         5,700         12         270         5           10/28/1998         water         12,000 E         5,780         1,390         44,00         1,300         480,000         5,700         5,10 <td< td=""><td></td><td>05/11/1999</td><td>water</td><td>35,900 E</td><td>2,660</td><td>D</td><td>1,140</td><td>394,000</td><td>57,800</td><td></td><td></td><td>165</td><td>494,015</td></td<>   |            | 05/11/1999 | water   | 35,900 E  | 2,660   | D           | 1,140   | 394,000    | 57,800  |         |         | 165     | 494,015 |
| 147241997         water         966 D         2,826 D         1,125 BD         799         43,625         6,970 D         6,700 D         6,700 D         6,700 D         3,400 D         2,100 BD         900 P         42,000 P         45,000 P         4,000 P         4,0   | MW-121     |            |         |           |         |             |         |            |         |         |         |         |         |
| 04/124/1998         water         1,600 D         3,400 D         2,100 BD         900         42,000         57,000         6,700         6,700         6,700         6,700         6,700         6,700         6,700         6,700         6,700         6,700         7,700 <td></td> <td>12/24/1997</td> <td>water</td> <td>Q 996</td> <td></td> <td>1,125 BD</td> <td>799</td> <td>43,625</td> <td>497,875</td> <td>5,337</td> <td>29</td> <td>351</td> <td>556,882</td>  |            | 12/24/1997 | water   | Q 996     |         | 1,125 BD    | 799     | 43,625     | 497,875 | 5,337   | 29      | 351     | 556,882 |
| 09/15/1998         water         1,700 E         1,800 E         660 E         990         75,000         480,000         3,200         12         270         5           1,028/1998         water         2,200         3,000 E         4,400         1,300 E         45,000 E         430,000 E         5,700 E         21,00         45,000 E         430,000 E         5,700 E         21,00 E         21,20 E         49,000 E         430,000 E         5,700 E         21,00 E         430,000 E         440,000 E         440,00  |            | 04/29/1998 | water   | 1,600 D   |         | 2,100 BD    | 006     | 42,000     | 22,000  | 6,700   |         | 530     | 117,580 |
| 4         4,000         4,400         4,500         46,000         430,000         45,000  |            | 09/15/1998 | water   | 1,700 E   |         |             | 066     | 75,000     | 480,000 | 3,200   | 12      | 270     | 566,639 |
| 05/11/1999         water         12,000 E         5,780         1,960         2,120         94,000         491,000         9,010         210         210           12/24/1997         water         5,560 D         139.5 D         107 BD         15,000         3,800         470         650         940           04/27/1998         water         7,780 B         150.0 B         49.5 D         100         15,000         3,800         470         650         340           09/27/1998         water         5,080 D         0         790         16,000         0         470         650         220         300           10/28/1998         water         4,900         0         790         16,000         0         550         690         2,920            |            | 10/28/1998 | water   | 2,200     | 3,000   | 4,400       | 1,300   | 46,000     | 430,000 | 5,700   |         |         | 492,600 |
| 12/24/1997         water         5,560 D         139.5 D         107 BD         156         21,320         1,077         177         370         40           04/27/1998         water         7,780 & 150.0 & 5 B         107. BD         15,000         3,800         470         650         940           07/01/1998         water         6,800 D         49.5         0         790         16,000         22,305         1,825         220         300           10/28/1998         water         4,900         0         790         176         16,000         0         550         690         2,900  |            | 05/11/1999 | water   | 12,000 E  | 5,780   | 1,960       | 2,120   | 94,000     | 491,000 | 9,010   |         | 210     | 617,455 |
| 12/24/1997         water         5,560 D         139.5 D         107 BD         156 D         1,077 BD         1,072 BD         1,077 BD         1,072 BD         1,0  | MW-122     |            |         |           |         |             |         |            |         |         |         |         |         |
| 04/27/1998         water         7,780 &         150.0         8         5         B         210         42,000         3,800         470         650         940         940           07/01/1998         water         6,800 D         49.5         0         100         15,000         25,305         1,825         550         220         300         90           10/28/1998         water         4,900         0         790         790         16,000         0         7         6,000         2,520         5920         220         300         90 <t< td=""><td></td><td>12/24/1997</td><td>water</td><td>5,560 D</td><td></td><td>107 BD</td><td>156</td><td>21,320</td><td>1,077</td><td>177</td><td>370</td><td></td><td>29,129</td></t<>   |            | 12/24/1997 | water   | 5,560 D   |         | 107 BD      | 156     | 21,320     | 1,077   | 177     | 370     |         | 29,129  |
| 07/01/1998         water         6,800 D         49.6         0         100         15,000         23         550         220         300           09/21/1998         water         5,080 D         0         790         790         16,000         0         750         690         790         780         0         760         690         790         780         0         780         0         780         0         780         0         780         0         780         0         780         0         780         0         780         0         780         780         0         780 </td <td></td> <td>04/27/1998</td> <td>water</td> <td>7,780 &amp;</td> <td></td> <td></td> <td>210</td> <td>42,000</td> <td>3,800</td> <td>470</td> <td>029</td> <td>940</td> <td>56,655</td>  |            | 04/27/1998 | water   | 7,780 &   |         |             | 210     | 42,000     | 3,800   | 470     | 029     | 940     | 56,655  |
| 09/21/1996         water         5,080 D         0         790         790         750   |            | 07/01/1998 | water   | G 008'9   | 49.5    | 0           | 100     | 15,000     | 23      | 250     | 220     | 300     | 23,274  |
| 10/28/1998         water         4,900         0         790         790         16,000         0         76,000         0         550         690         7         6,000         2,920   |            | 09/21/1998 | water   | 5,080 D   | 0       |             |         | 26,305     | 1,825   |         |         |         | 33,210  |
| 05/11/1999         water         7,710         98         4         152         101,000         7         3,040         6,000         2,920         2         2         2         2         484         86         513         906         770         906         770         906         770         906         770         906         770         906         770         906         770         906         770         906         770         906         770         906         770         906         770         906         770         906         770         906         770         906         770         906   |            | 10/28/1998 | water   | 4,900     | 0       | 190         |         | 16,000     | 0       |         | 550     | 069     | 22,930  |
| 12/24/1997         water         7,710 D         U         111 BD         132         29,770         484         86         513         906           04/27/1998         water         6,400 &         72.0 E         U         43         1,000         7         13         320         400           07/01/1998         water         6,600 \$         59         1,100         61         22,000         6         130         470         410           10/28/1998         water         4,900         17,100         1,100         38,000         6         130         470         410           45/11/1999         water         4,900         172 E         2         90         9,870         8         305         591         301  |            | 05/11/1999 | water   | 159,000 D | 86      | 4           | 152     | 101,000    | 2       | 3,040   | 000'9   | 2,920   | 273,742 |
| water         7,710 D         U         111 BD         132         29,770         484         86         513         906           water         6,400 & 31.3         72.0 E         U         43         1,000         7         13         320         400           water         6,600 \$         59         1,100         61         22,000         6         130         470         410           water         4,900         172 E         2         90         9,870         8         305         50         7   | MW-124     |            |         |           |         |             |         |            |         |         |         |         |         |
| water         6,400 & 12.0 E         72.0 E         U         86         2,200         26         110         500         770         770           water         5,400 D         31.3         U         43         1,000         7         13         320         400           water         4,900         172 E         1,100         38,000         9         9,870         8         305         59         301   |            | 12/24/1997 | water   | 7,710 D   | ח       |             | 132     | 29,770     | 484     | 86      | 513     | 906     | 40,516  |
| water         5,400 D         31.3         U         43         1,000         7         13         320         400           water         6,600 \$         59         1,100         61         22,000         6         130         470         410           water         4,900         172 E         2         90         9,870         8         305         591         301  |            | 04/27/1998 | water   | 6,400 &   |         | n           | 98      | 2,200      | 26      | 110     | 200     | 770     | 10,854  |
| water         6,600 \$         59         U         61         22,000         6         130         470         410           water         4,900         172         E         2         90         9,870         8         305         591         301   |            | 07/01/1998 | water   | 5,400 D   | 31.3    | Π           | 43      | 1,000      | 7       | 13      | 320     | 400     | 7,447   |
| water         4,900         1,100         38,000         0           water         18,100 D         172 E         2         90         9,870         8         305         591         301   | Ţ          | 09/15/1998 | water   | \$ 009'9  | 59      | n           | 19      | 22,000     | 9       | 130     | 470     | 410     | 30,261  |
| water 18,100 D 172 E 2 90 9,870 8 305 591 301  |            | 10/28/1998 | water   | 4,900     |         | 1,100       |         | 38,000     | 0       |         |         |         | 44,000  |
|  |            | 05/11/1999 | water   | 18,100 D  |         | . 2         | 06      | 9,870      | 80      | 305     | 591     | 301     | 30,505  |

# MW-007 VINYL CHLORIDE GROUNDWATER



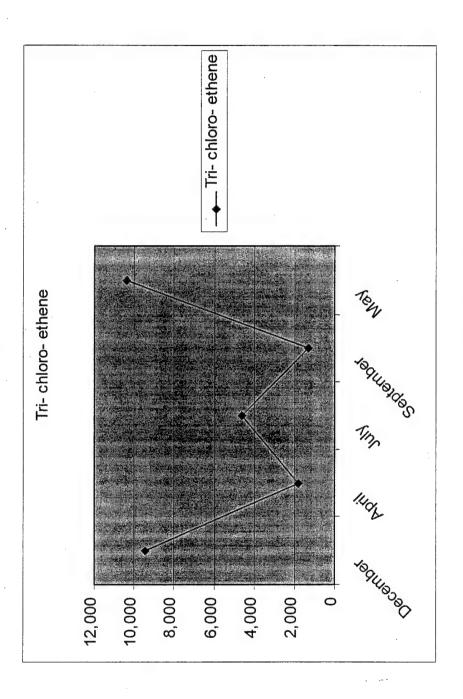
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# MW-007 cis 1,2 DCE GROUNDWATER



f:/projects/5007/kellyafb/"file"

# MW-007 TCE GROUNDWATER



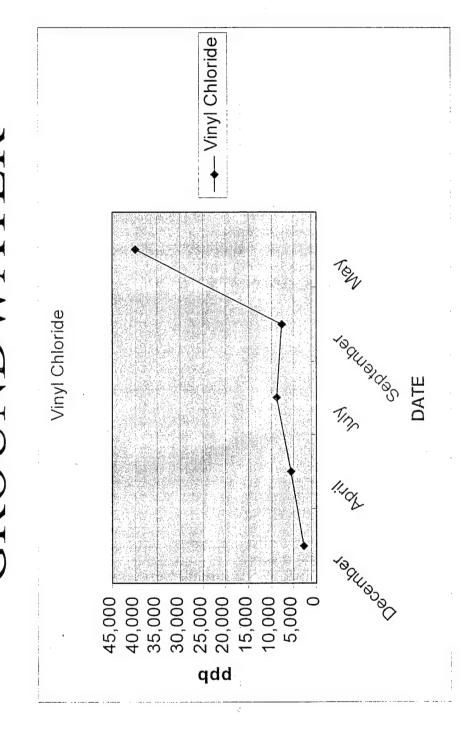
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### MW-007 TOTAL VOCS GROUNDWATER



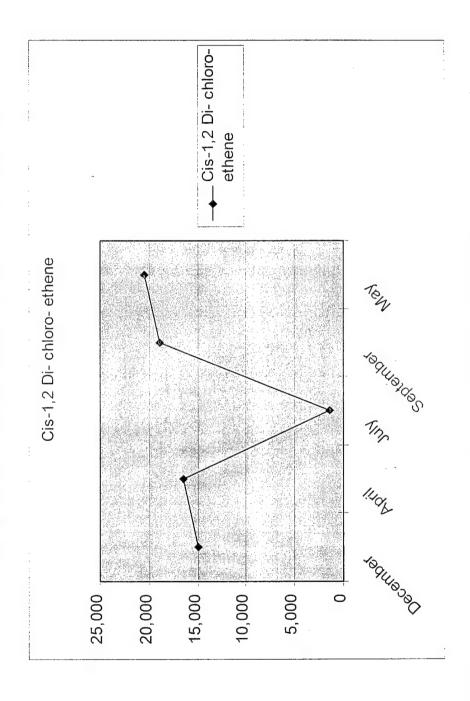
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# MW-119 VINYL CHLORIDE GROUNDWATER



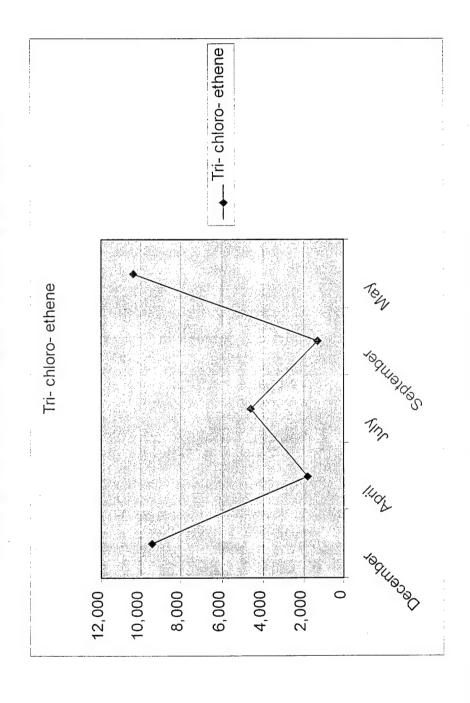
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### MW-119 cis 1,2 DCE GROUNDWATER



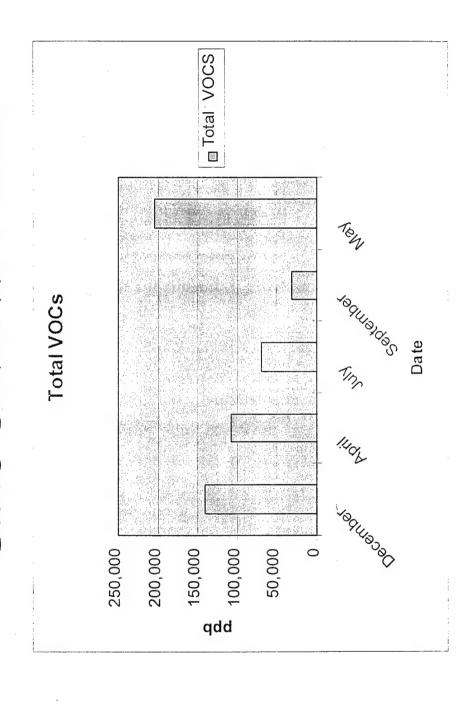
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#### MW-119 TCE GROUNDWATER



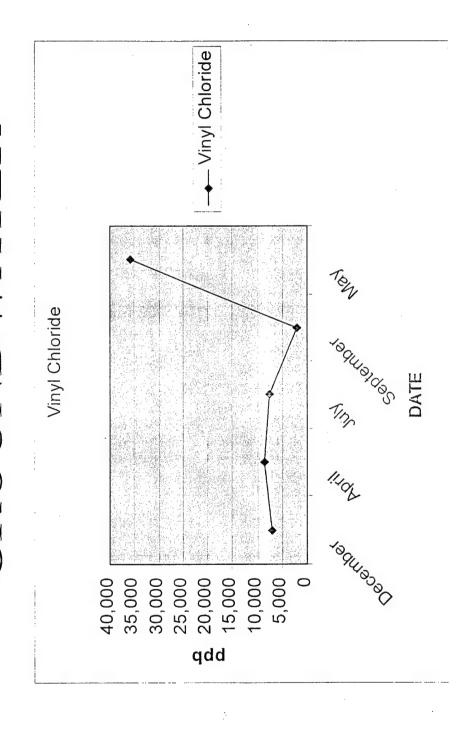
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# MW-119 TOTAL VOCS GROUNDWATER



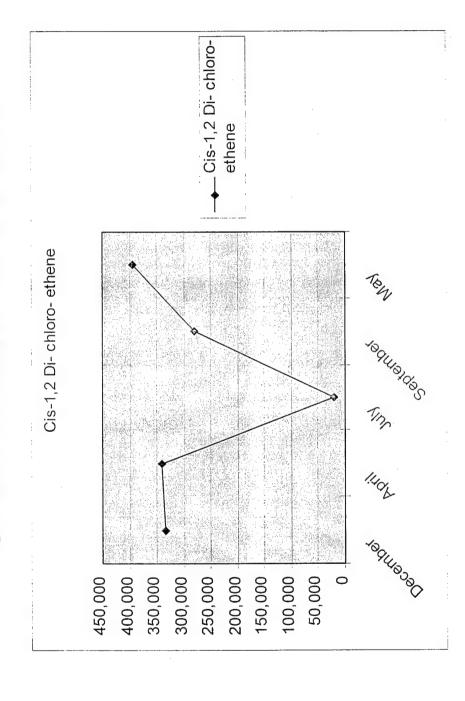
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# MW-120 VINYL CHLORIDE GROUNDWATER



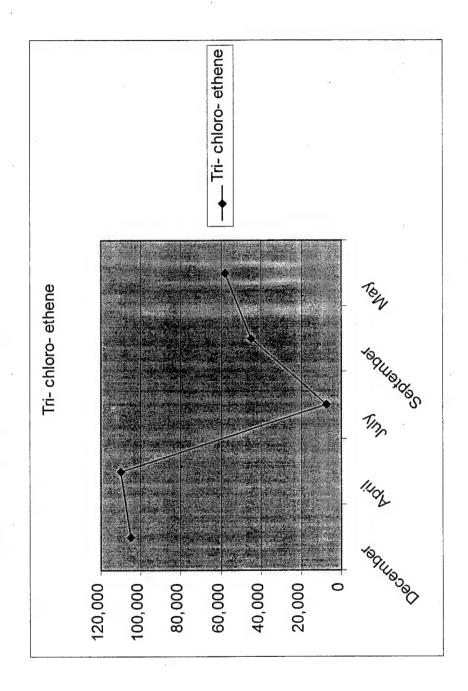
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### MW-120 cis 1,2 DCE GROUNDWATER

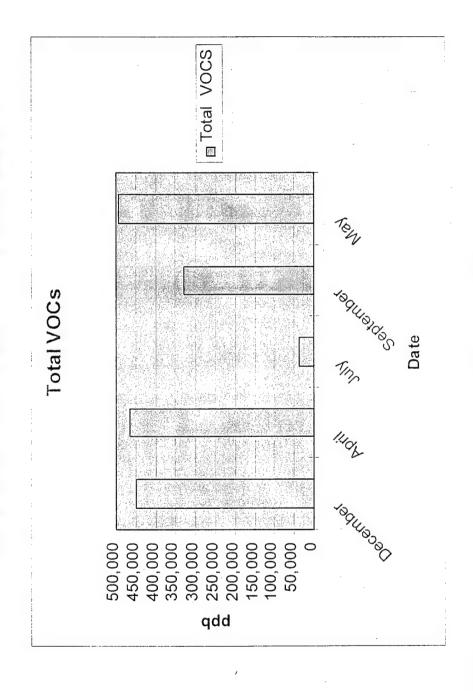


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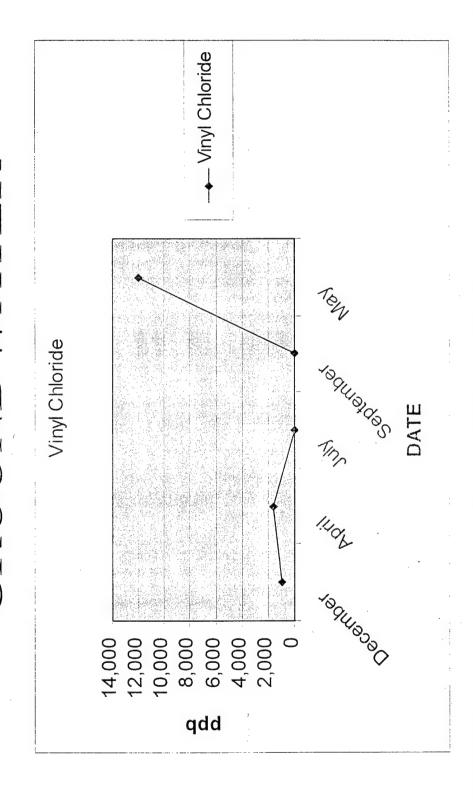
#### MW-120 TCE GROUNDWATER



### MW-120 TOTAL VOCS GROUNDWATER

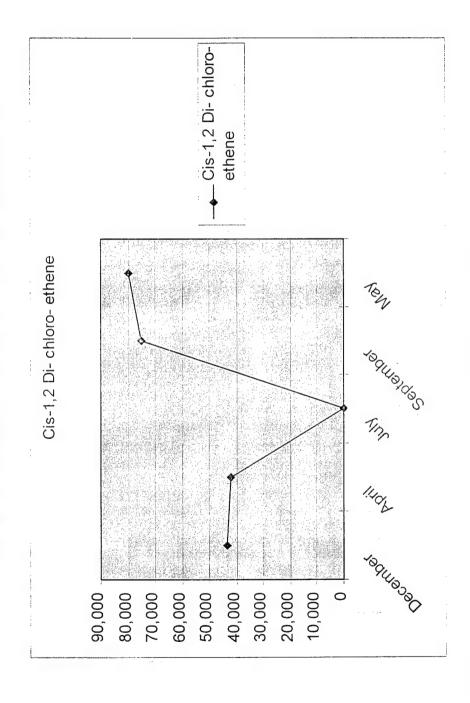


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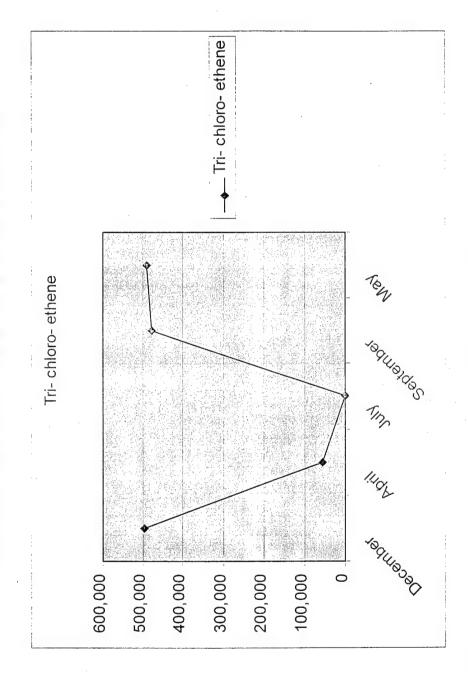
f:/projects/5007/kellyafb/"file"

### MW-121 cis 1,2 DCE GROUNDWATER



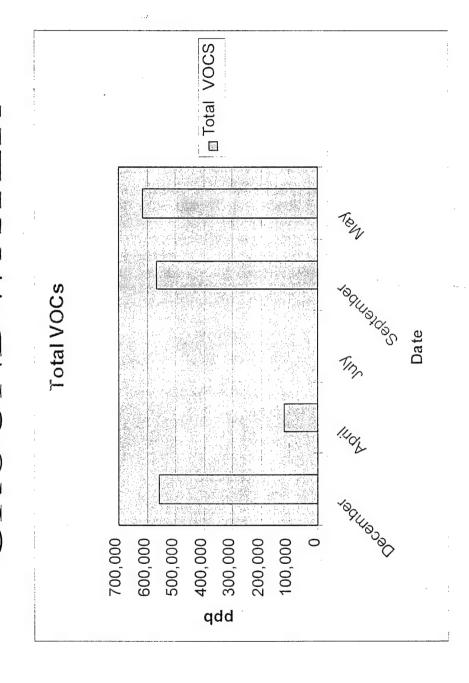
f:/projects/5007/kellyafb/"file"

## GROUND WATER



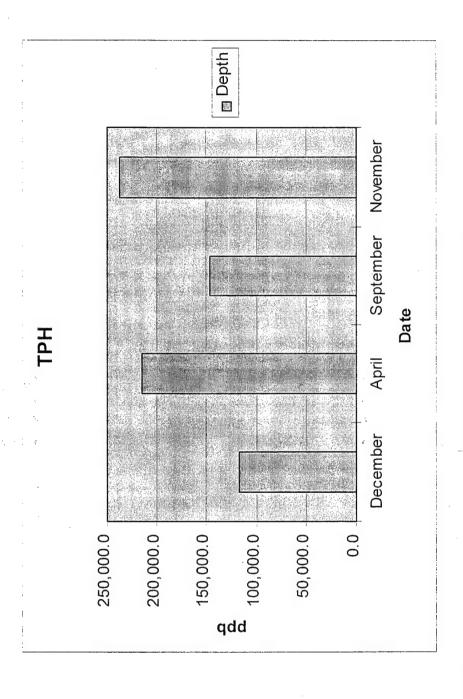
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# MW-121 TOTAL VOCS GROUNDWATER



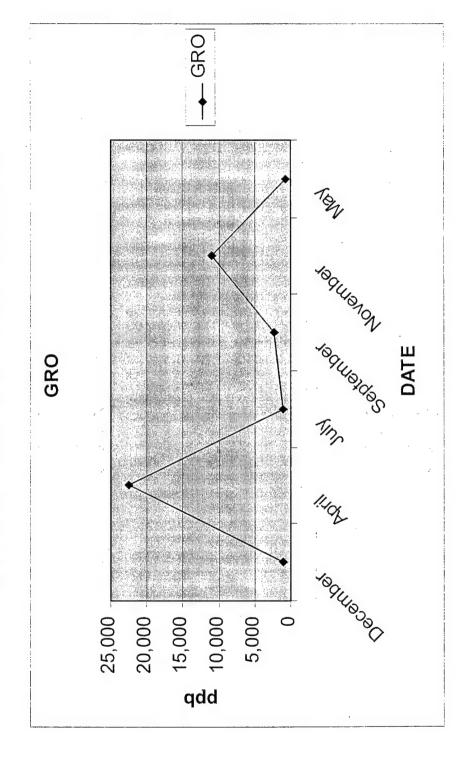
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## GROUNDWATER



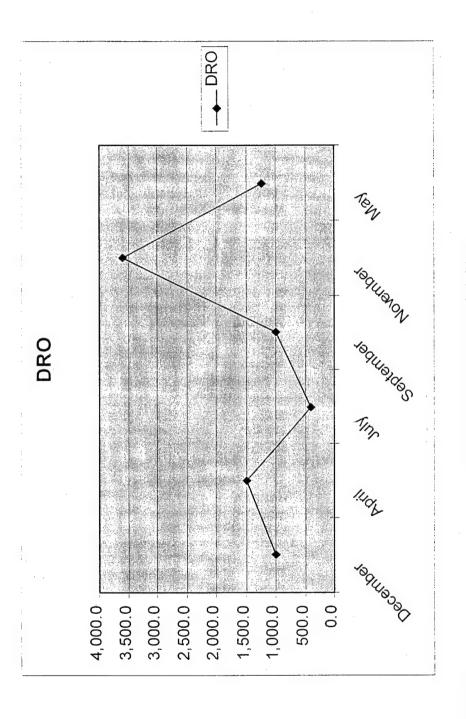
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#### MW-122 GRO GROUNDWATER



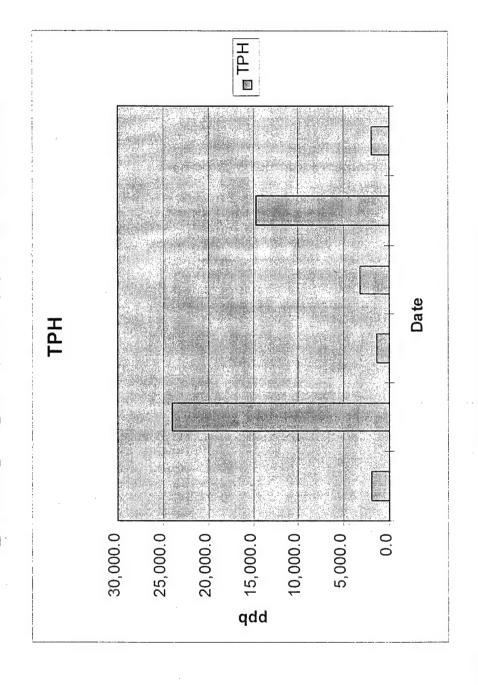
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#### MW-122 DRO GROUNDWATER



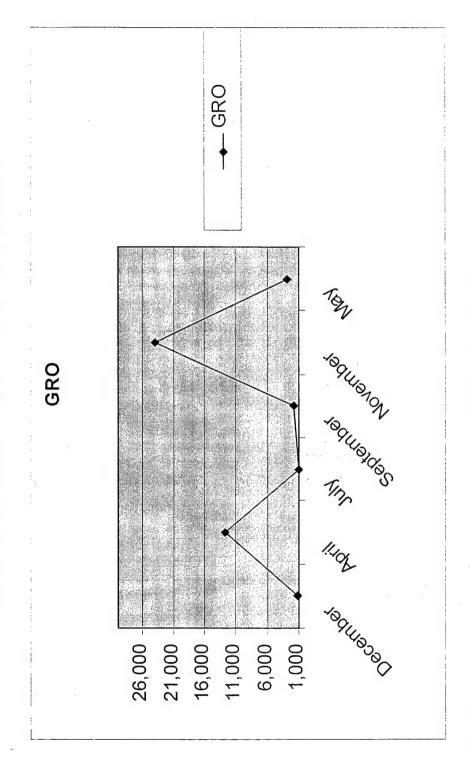
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#### MW-122 TPH GROUNDWATER



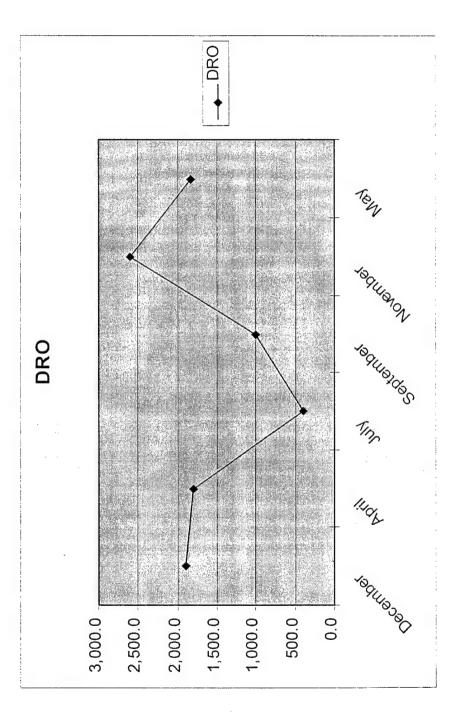
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#### MW-124 GRO GROUNDWATER

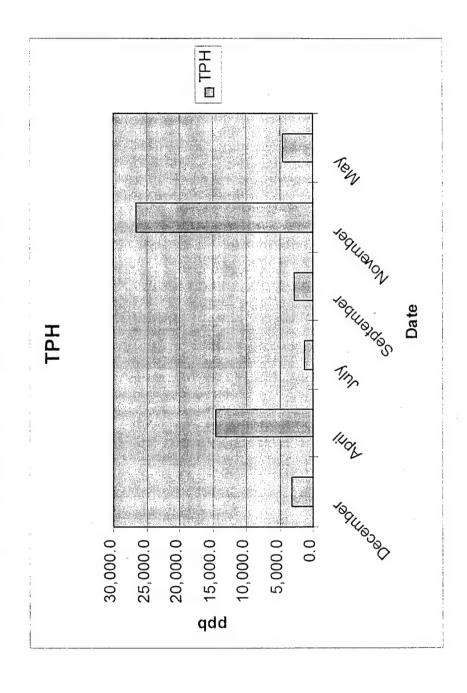


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#### MW-124 DRO GROUNDWATER

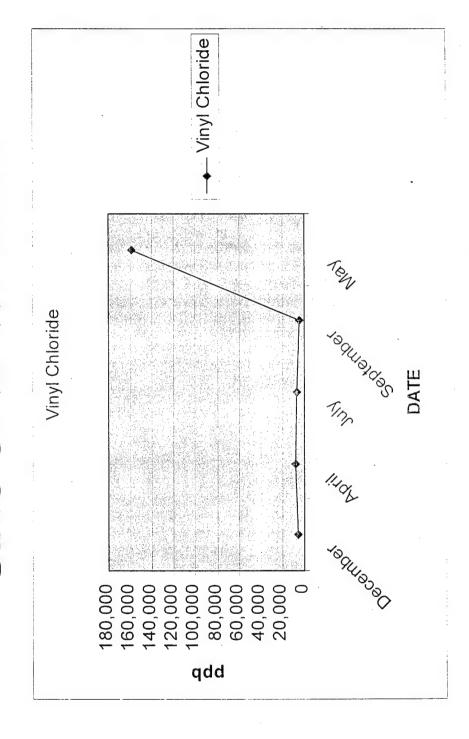


#### MW-124 TPH GROUNDWATER



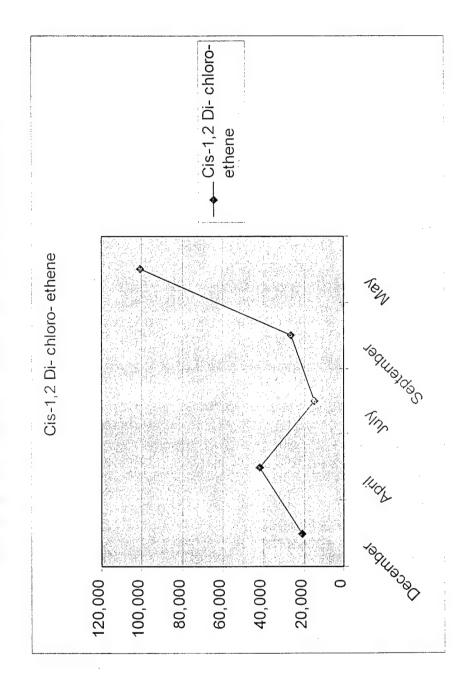
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## MW-122 VINVE CHLORIDE GROUNDWATER



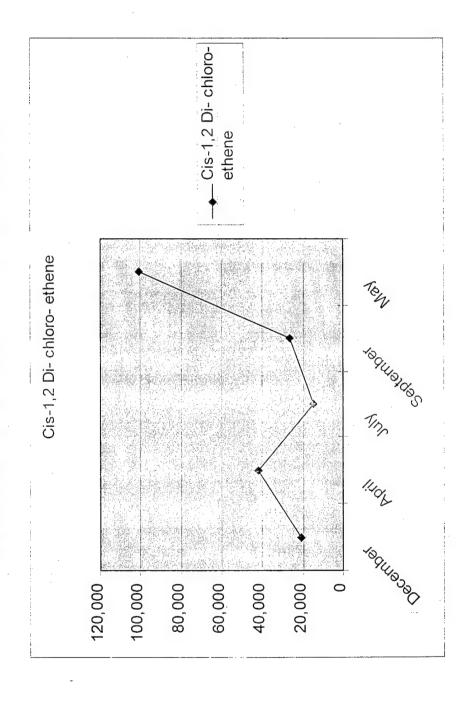
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### MW-122 cis 1,2 DCE GROUNDWATER



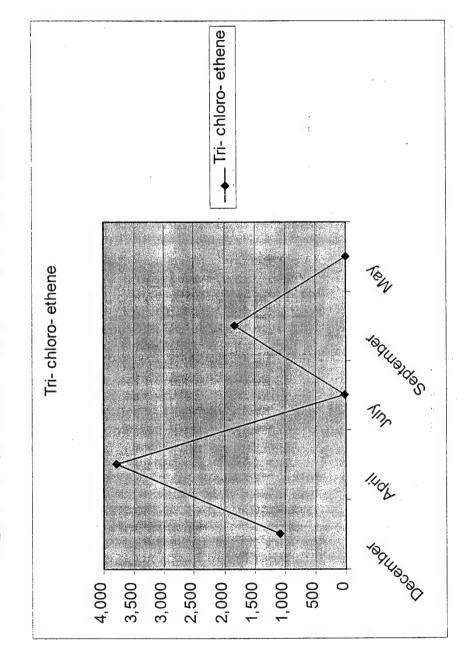
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### MW-122 cis 1,2 DCE GROUNDWATER



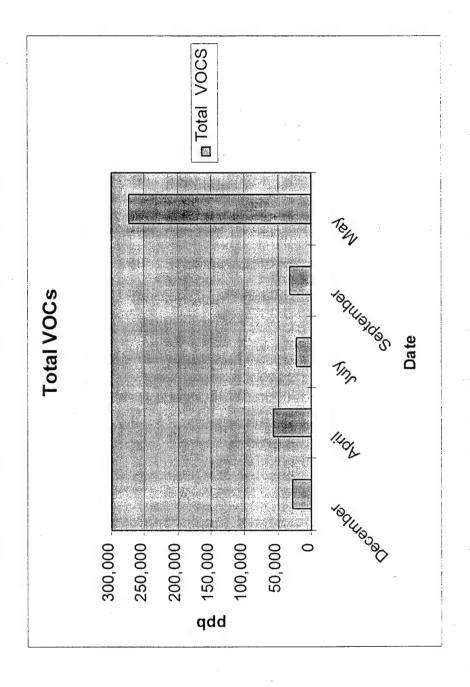
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#### MW-122 TCE GROUNDWATER



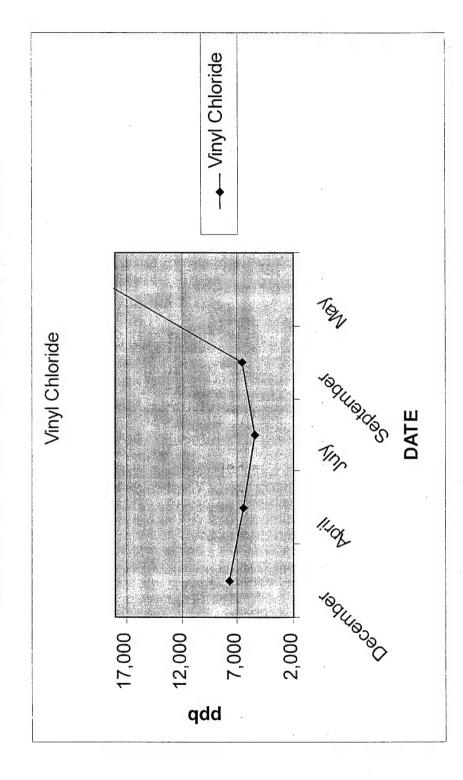
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### MW-122 TOTAL VOCS GROUNDWATER



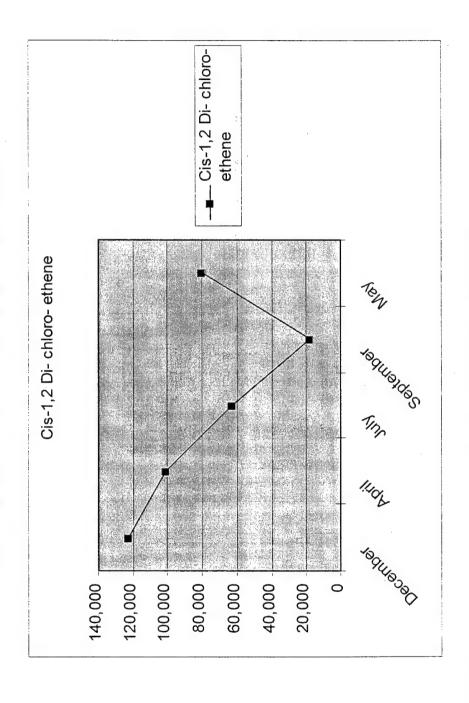
f:/projects/5007/kellyafb/"file"

## MW-124 VINYL CHLORIDE GROUNDWATER



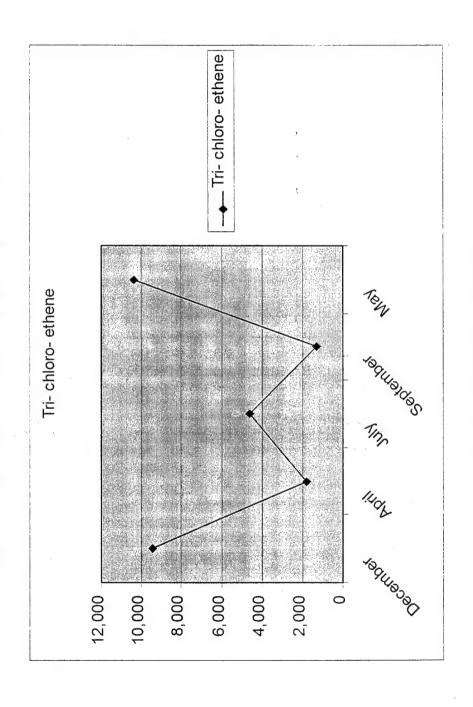
f:/projects/5007/kellyafb/"file"

### MW-124 cis 1,2 DCE GROUNDWATER



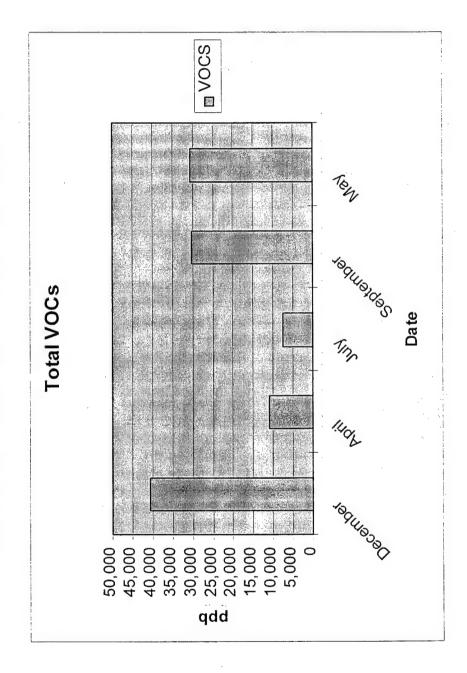
f:/projects/5007/kellyafb/"file"

#### MW-124 TCE GROUNDWATER



f:/projects/5007/kellyafb/"file"

# MW-124 TOTAL VOCS GROUNDWATER



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#### APPENDIX E

SOIL SAMPLING ANALYTICAL RESULTS ANALYSIS

## TABLE 3.1.2 AMENDED SOIL SAMPLE #s OF CHAINOF-CUSTODY FORMS FOR MAY 1999 SOIL SAMPLES FROM KELLY AIR FORCE BASE

| Current Sample #s | Sample Depth | Jepth   New Sample #s     |
|-------------------|--------------|---------------------------|
| MW-122            |              |                           |
| SB-1 WP021SB143   | 8'-10'       | , WP021SB180              |
| SB-1 WP021SB143   |              |                           |
| SB-1 WP021SB143   | 28'-30'      | ); WP021SB180             |
| MW-124            |              |                           |
| SB-2 WP021SB144   | 8'-10'       | , WP021SB181              |
| SB-2 WP021SB144   | . 18'-20'    | ); WP021SB181             |
| SB-2 WP021SB144   | . 28'-30'    | ) <sup>1</sup> WP021SB181 |
| MW-120            |              |                           |
| SB-3 WP021SB145   | 8'-10'       |                           |
| SB-3 WP021SB145   | 18'-20'      | )' WP021SB182             |
| SB-3 WP021SB145   | 28'-30'      | ); WP021SB182             |
| MW-121            |              |                           |
| SB-4 WP021SB146   | 8'-10'       | , WP021SB183              |
| SB-4 WP021SB146   | 18'-20'      | ); WP021SB183             |
| SB-4 WP021SB146   | 28'-30'      | ); WP021SB183             |
| MW-119            |              |                           |
| SB-5 WP021SB147   | 8'-10'       |                           |
| SB-5 WP021SB147   | 7 18'-20'    | ); WP021SB184             |
| SB-5 WP021SB147   | 7 28'-30'    | ) <sup>1</sup> WP021SB184 |
| MW-007            |              |                           |
| SB-6 WP021SB148   | 3 8'-10'     | WP021SB185                |
| SB-6 WP021SB148   | 3 18'-20'    |                           |
| SB-6 WP021SB148   | 3 28'-30'    | ); WP021SB185             |
|                   |              |                           |
| WP021SB149        | 8'-10'       |                           |
| WP021SB149        | 18'-20'      |                           |
| WP021SB149        | 28'-30'      | ), WP021SB186             |
|                   |              |                           |

Note: All current sample numbers need to be changed to the new sample numbers as indicated in the right column of the table. There are two sample containers from each sample depth for each sample. The sample numbers are distinguished apart by the sample depths.

F:\Projects\5007-Kelly Air Force Base\Reports\Final Report\Current Soil Sample Table 3.1.2.Doc

TABLE 3.1.2 (Continued)

| New Sample #s     | WP021SB187 | WP021SB187 | WP021SB187 | WP021SB188 | WP021SB188 | WP021SB188 | WP021SB189 | WP021SB189 | WP021SB189 | WP021SB190 | WP021SB190 | WP021SB190 | WD024SB404 | 1010120 IV  | WP0213B191 | WPUZIOBIBI  | WP021SB192 | WP021SB192 | WP021SB192 | WP021SB193 | WP021SB193 | WP021SB193 |
|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|-------------|------------|------------|------------|------------|------------|------------|
| Sample Depth      | 8'-10'     | 18'-20'    | 28'-30'    | 8'-10'     | 18'-20'    | 28'-30'    | 8'-10'     | 18'-20'    | 28'-30'    | 8'-10'     | 18'-20'    | 28'-30'    | Ö<br>Ö     | 19, 20,     | 02-81      | 70-30       | 8'-10'     | 18'-20'    | 28'-30'    | 8'-10'     | 18'-20'    | 28'-30'    |
| Current Sample #s | WP021SB150 | WP021SB150 | WP021SB150 | WP021SB151 | WP021SB151 | WP021SB151 | WP021SB152 | WP021SB152 | WP021SB152 | WP021SB153 | WP021SB153 | WP021SB153 | WD0218B164 | WI OZIODIOŁ | WP0Z1SB134 | VVPUZ13B134 | WP021SB155 | WP021SB155 | WP021SB155 | WP021SB156 | WP021SB156 | WP021SB156 |

All current sample numbers need to be changed to the new sample numbers as indicated in the right column of the table. There are two sample containers from each sample depth for each sample. The sample numbers are distinguished apart by the sample depths. Note:

#### TPH as GRO/DRO in Soil

|                                      |                          |              | 111 3011 |                        | _    |             |                           |
|--------------------------------------|--------------------------|--------------|----------|------------------------|------|-------------|---------------------------|
| Sample ID:                           | Date                     | Matrix       | Depth    | GRO                    |      | DRO         |                           |
|                                      | Analyzed:                | Soil or      |          |                        |      |             |                           |
|                                      |                          | Water        |          |                        |      |             |                           |
| MW-007                               |                          |              |          |                        |      |             |                           |
| (renamed SB-123)                     | 12/01/1997               | soil         | 8 TO 10  | 2,300.0                | U    | 2,300.0     | U                         |
| (renamed SB-130)                     | 04/28/1998               | soil         | 8 TO 10  | 2,784,980.0            |      | 3,007,900.0 | D                         |
| (renamed SB-136)                     | 07/01/1998               | soil         | 8 TO 10  | 1,100.0                | U    | 3,900.0     | J                         |
| (renamed SB-142)                     | 09/02/1998               | soil         | 8 TO 10  | 1,000.0                |      | 11,300.0    | U                         |
| (renamed SB-185)                     | 05/11/1999               | soil         | 8 TO 10  | 1,000.0                | U    | 10,000.0    | U                         |
| (renamed SB-123).                    | 12/01/1997               | soil         | 18 TO 20 | 2,300.0                | U    | 2,300.0     | U                         |
| (renamed SB-130)                     | 04/28/1998               | soil         | 18 TO 20 | 6,360.0                | U    | 8,700.0     | F                         |
| (renamed SB-136)                     | 07/01/1998               | soil         | 18 TO 20 | 1,200.0                | U    | 11,600.0    | U                         |
| (renamed SB-142)                     | 09/02/1998               | soil         | 18 TO 20 | 30.0                   |      | 11,500.0    | U                         |
| (renamed SB-185)                     | 05/11/1999               | soil         | 18 TO 20 | 1,000.0                | U    | 10,000.0    | U                         |
| (renamed SB-123)                     | 11/28/1997               | soil         | 28 TO 30 | 2,500.0                | Ü    | 2,500.0     | U                         |
| (renamed SB-130)                     | 04/28/1998               | soil         | 28 TO 30 | 1,516,990.0            | U    | 85,400.0    | FD                        |
| (renamed SB-136)                     | 07/01/1998               | soil         | 28 TO 30 | 782,200.0              | Ū    | 3,100.0     | J                         |
| (renamed SB-142)                     | 09/02/1998               | soil         | 28 TO 30 | 70.0                   |      | 12,000.0    | U                         |
| (renamed SB-185)                     | 05/11/1999               | soil         | 28 TO 30 | 1,000.0                | U    | 10,000.0    | U                         |
| MW-119                               | 03/11/1000               | 3011         | 20 10 00 | 1,000.0                | -    | 10,000.0    |                           |
| 10100-119                            | 12/01/1997               | soil         | 8 TO 10  | 9.1                    | U    | 9.1         | U                         |
| (                                    | 04/27/1998               | soil         | 8 TO 10  | 235,980.0              | D    | 360,400.0   |                           |
| (renamed SB-129)                     | 07/01/1998               | soil         | 8 TO 10  | 1,100.0                | U    | 13,900.0    | 10                        |
| (renamed SB-135)                     | 09/02/1998               | soil         | 8 TO 10  | 43,660.0               | -    | 225,700.0   |                           |
| (renamed SB-141)                     |                          |              | 8 TO 10  | 280,000.0              |      | 566,000.0   |                           |
| (renamed SB-184)                     | 05/11/1999<br>12/01/1997 | soil<br>soil | 18 TO 20 | 2,300.0                | U    | 2,300.0     | U                         |
| (                                    | 04/27/1998               | soil         | 18 TO 20 | 1,160.0                | U    | 11,600.0    | Ü                         |
| (renamed SB-129)                     | 07/01/1998               | soil         | 18 TO 20 | 1,200.0                | Ü    | 12,000.0    | $-\overline{U}$           |
| (renamed SB-135)<br>(renamed SB-141) | 09/02/1998               | soil         | 18 TO 20 | 200.0                  |      | 16,700.0    | <u>U</u>                  |
|                                      | 05/11/1999               | soil         | 18 TO 20 | 1,000.0                | U    | 10,000.0    | - <del>U</del>            |
| (renamed SB-184)                     | 12/01/1997               | soil         | 28 TO 30 | 2,200.0                | Ü    | 2,200.0     | <del>-</del> U            |
| (renamed CD 120)                     | 04/27/1998               | soil         | 28 TO 30 | 1,060.0                | Ü    | 10,600.0    | <del>-</del> U            |
| (renamed SB-129)<br>(renamed SB-135) | 07/01/1998               | soil         | 28 TO 30 | 1,200.0                | U    | 11,800.0    | <del>-</del> <del>U</del> |
|                                      | 09/02/1998               |              | 28 TO 30 | 173,880.0              | -    | 4,600.0     | J                         |
| (renamed SB-141)                     | 05/11/1999               | soil<br>soil | 28 TO 30 | 14,100.0               |      | 364,000.0   |                           |
| (renamed SB-184)                     | 03/11/1999               | 5011         | 20 10 30 | 14,100.0               |      | 304,000.0   |                           |
| MW-120                               | 11/20/1007               | aoil         | 0.TO11   | 2 200 0                | U    | 2,300.0     | U                         |
| /                                    | 11/28/1997               | soil         | 9 TO11   | 2,300.0                | U    | 3,800.0     |                           |
| (renamed SB-127)                     | 04/27/1998               | soil         | 8 TO 10  | 1,140.0                | U    | 11,700.0    |                           |
| (renamed SB-133)                     | 07/01/1998               | soil         | 8 TO 10  | 1,200.0<br><b>40.0</b> | U    | 11,700.0    |                           |
| (renamed SB-139)                     | 09/02/1998               | soil         | 8 TO 10  |                        | - 11 | 10,000.0    |                           |
| (renamed SB-182)                     | 05/11/1999               | soil         | 8 TO 10  | 1,000.0                | U    |             |                           |
| 105 105                              | 11/28/1997               | soil         | 18 TO 19 | 2,300.0                | U    | 2,300.0     |                           |
| (renamed SB-127)                     | 04/28/1998               | soil         | 18 TO 20 | 1,240.0                | U    | 12,400.0    |                           |
| (renamed SB-133)                     | 07/01/1998               | soil         | 18 TO 20 | 1,100.0                | U    | 10,900.0    |                           |
| (renamed SB-139)                     | 09/02/1998               | soil         | 18 TO 20 | 30.0                   | 11   | 11,500.0    |                           |
| (renamed SB-182)                     | 05/11/1999               | soil         | 18 TO 20 | 1,000.0                | U    | 12,200.0    |                           |
|                                      | 11/28/1997               | soil         | 28 TO 30 | 2,500.0                | U    | 2,500.0     |                           |
| (renamed SB-127)                     | 04/27/1998               | soil         | 20 to 30 | 1,220.0                | U    | 3,500.0     |                           |
| (renamed SB-133)                     | 07/01/1998               | soil<br>     | 28 TO 30 | 1,300.0                | U    | 12,600.0    |                           |
| (renamed SB-139)                     | 09/02/1998               | soil         | 28 TO 30 | 200.0                  |      | 12,300.0    | U                         |

#### TPH as GRO/DRO in Soil

| (renamed SB-182)  | 05/11/1999 | soil | 28 TO 30 | 1,000.0                                 | U        | 10,000.0    | U  |
|-------------------|------------|------|----------|---|----------|-------------|----|
| MW-121            |            |      |          |   |          |             |    |
|                   | 11/28/1997 | soil | 8 TO 10  | 5,000.0                                 | U        | 5,000.0     | U  |
| (renamed SB-128)  | 04/27/1998 | soil | 8 TO 10  | 1,180.0                                 |          | 11,800.0    | Ų  |
| (renamed SB-134)  | 07/01/1998 | soil | 8 TO 10  | 1,052,050.0                             |          | 220,300.0   | JD |
| (renamed SB-140)  | 09/03/1998 | soil | 8 TO 10  | 500.0                                   |          | 11,600.0    | U  |
| (renamed SB-183)  | 05/11/1999 | soil | 8 TO 10  | 2,630,000.0                             |          | 3,840,000.0 |    |
|                   | 11/28/1997 | soil | 18 TO 20 | 4,800.0                                 | U        | 4,800.0     | U  |
| (renamed SB-128)  | 04/27/1998 | soil | 18 TO 20 | 11,600.0                                | U        | 11,600.0    | U  |
| (renamed SB-134)  | 07/01/1998 | soil | 18 TO 20 | 148,100.0                               | U        | 24,900.0    |    |
| (renamed SB-140)  | 09/03/1998 | soil | 18 TO 20 | 3,800.0                                 |          | 11,700.0    |    |
| (renamed SB-183)  | 05/11/1999 | soil | 18 TO 20 | 22,600.0                                |          | 39,900.0    | -  |
| ,                 | 11/28/1997 | soil | 28 TO 30 | 2,500.0                                 | U        | 2,500.0     | U  |
| (renamed SB-134)  | 07/01/1998 | soil | 28 TO 30 | 1,655,600.0                             | U        | 1,548,100.0 | D  |
| (renamed SB-140)  | 09/02/1998 | soil | 28 TO 30 | 244,040.0                               |          | 154,500.0   | JD |
| (renamed SB-183)  | 05/11/1999 | soil | 28 TO 30 | 133,000.0                               |          | 12,700.0    |    |
| MW-122            | 00/11/1000 |      |          | , |          |             |    |
| 1010 0-122        | 12/01/1997 | soil | 8 TO 10  | 2,200.0                                 | U        | 2,200.0     | U  |
| (renamed SB-125)  | 04/27/1998 | soil | 8 TO 10  | 25,390.0                                |          | 28,100.0    | U  |
| (renamed SB-131)  | 07/01/1998 | soil | 8 TO 10  | 279,000.0                               | U        | 99,000.0    | D  |
| (renamed SB-137)  | 09/01/1998 | soil | 8 TO 10  | 1,000.0                                 | $\dashv$ | 24,500.0    |    |
| (renamed SB-180)  | 05/11/1999 | soil | 8 TO 10  | 3,170.0                                 |          | 10,000.0    | U  |
| (Terramed SD-100) | 12/01/1997 | soil | 18 TO 20 | 2,400.0                                 | U        | 2,400.0     | Ū  |
| (renamed SB-125)  | 04/27/1998 | soil | 18 TO 20 | 2,190.0                                 |          | 15,100.0    | U  |
| (renamed SB-131)  | 07/01/1998 | soil | 18 TO 20 | 1,300.0                                 | U        | 12,700.0    | Ū  |
| (renamed SB-137)  | 09/01/1998 | soil | 18 TO 20 | 600.0                                   |          | 24,500.0    |    |
| (renamed SB-180)  | 05/11/1999 | soil | 18 TO 20 | 1,000.0                                 | U        | 10,000.0    | U  |
| (renamed ob 100)  | 12/01/1997 | soil | 28 TO 30 | 2,500.0                                 | Ü        | 2,500.0     | U  |
| (renamed SB-125)  | 04/27/1998 | soil | 28 TO 30 | 1,350.0                                 | U        | 13,500.0    | U  |
| (renamed SB-131)  | 07/01/1998 | soil | 28 TO 30 | 1,300.0                                 | U        | 1,600.0     | J  |
| (renamed SB-137)  | 09/01/1998 | soil | 28 TO 30 | 1,000.0                                 | U        | 12,500.0    | Ü  |
| (renamed SB-180)  | 05/11/1999 | soil | 28 TO 30 | 1,000.0                                 | U        | 10,000.0    | U  |
| MW-124            | 00//11/000 |      |          |   |          |             |    |
| 1010 0-12-4       | 12/01/1997 | soil | 8 TO 10  | 2,300.0                                 | U        | 2,300.0     | U  |
| (renamed SB-126)  | 04/27/1998 | soil | 8 TO 10  | 1,150.0                                 | Ū        | 11,500.0    | U  |
| (renamed SB-132)  | 07/01/1998 | soil | 8 TO 10  | 12,000.0                                | Ū        | 5,500.0     | J  |
| (renamed SB-138)  | 09/01/1998 | soil | 8 TO 10  | 2,000.0                                 |          | 11,800.0    | U  |
| (renamed SB-181)  | 05/11/1999 | soil | 8 TO 10  | 1,000.0                                 | U        | 10,000.0    | U  |
| (renamed ob 101)  | 12/01/1997 | soil | 18 TO 20 | 2,300.0                                 | Ū        | 2,300.0     | Ū  |
| (renamed SB-126)  | 04/27/1998 | soil | 18 TO 20 | 1,150.0                                 | U        | 11,500.0    | U  |
| (renamed SB-132)  | 07/01/1998 | soil | 18 TO 20 | 1,200.0                                 | Ū        | 11,600.0    | U  |
| (renamed SB-138)  | 09/01/1998 | soil | 18 TO 20 | 90.0                                    |          | 11,300.0    | U  |
| (renamed SB-181)  | 05/11/1999 | soil | 18 to 20 | 1,000.0                                 | U        | 10,000.0    | U  |
| (Toriamed OD-101) | 12/01/1997 | soil | 28 TO 30 | 2,300.0                                 | Ü        | 2,300.0     |    |
| (renamed SB-126)  | 04/27/1998 | soil | 28 TO 30 | 1,140.0                                 | Ū        | 22,900.0    |    |
| (renamed SB-132)  | 07/01/1998 | soil | 28 TO 30 | 1,300.0                                 | Ū        | 12,900.0    | U  |
| (renamed SB-138)  | 09/01/1998 | soil | 28 TO 30 | 500.0                                   |          | 12,600.0    |    |
|                   |            |      | 28 TO 30 | 1,000.0                                 | U        | 10,000.0    | U  |
| (renamed SB-181)  | 05/11/1999 | soil | 20 10 30 | 1,000.0                                 | U        | 10,000.0    | U  |

Kelly Air Force Base San Antonio, Texas TPH Soil Results

| Sample ID:        | Date<br>Analyzed: | Matrix<br>Soil or<br>Water | Depth                | Naphtha | Gasoline       | Mineral<br>Oil | Solvent | Faint<br>Thinner | Jef<br>Fuel #4 | Jet<br>Fuel #5 | Kerosene | Diesel   | OII OII    | OX             | DYG.        |
|-------------------|-------------------|----------------------------|----------------------|---------|----------------|----------------|---------|------------------|----------------|----------------|----------|--|------------|----------------|-------------|
| MW-007            | 12/01/1997        | jos                        | 8 TO 10              | 23 11   | 23 11          | 23             | 23 U    |                  | 2.3 U          | 2.3 U          | 23 U     | 2.3  | 9.1        | AN             | Ϋ́          |
| renamed SB-130)   | 04/28/1998        |                            | 8 TO 10              | AN      | 1              | NA NA          | AN      | ¥                | 2,237,100.0 U  | 3,007,900.0    |          | 2,237,100.0 U  |            | NA             | î I         |
| renamed SB-136)   | 07/01/1998        | soil                       | 8 TO 10              |         | AN             |                | AN      | ¥                | NA             | 3,900.0        |          |  |            | 1,100.0 U      | 11,500.0    |
| (renamed SB-123)  | 12/01/1997        | soil                       | 18 TO 20             | 2.3     | - 1            | 2.3            | 2.3 U   | 2.3 U            |                | 2.3            | 2.3      | 2.3 U  | 9.1 0      | NA             | NA VI       |
| renamed SB-130)   | 04/28/1998        | Т                          | 18 TO 20             |         | 6,360.0 U      |                | ¥ 4 2   | AN               | 12,700.0 U     |                |          | 12,700.0   | 4 4 2      | 1 2000 1       | 11 600 0    |
| (renamed SB-136)  | 4472644007        | T                          | 20 TO 20             | 2 2 2 2 | 11 3 6         | 3 6            | 25      | 25 11            | 25 11          |                | 25.11    | 25   | 6          |                | NAN NA      |
| renamed SB-123)   | 04/28/1997        | iog<br>iog                 | 28 10 30             |         | 1 516 990.0    | 2.3            | AN AN   | AN NA            | 121.400.0 U    | 85.400.0 FD    | 3        | 121.400  | 3          |                | NA          |
| renamed SB-136)   | 07/01/1998        | soil                       | 28 TO 30             |         |                |                | AA      | AN.              | 14             | 3,100.0        | AN       |  | AN<br>AN   | 782,200.0 U    | 12,500.0 U  |
| MW-119            |                   |                            |                      |         |                |                |         |                  |                |                | AN       |  | AN         | NA             | NA          |
|                   | 12/01/1998        | soil                       | 8 TO 10              | 9.1 U   | 9.1 U          | 9.1            | 9.1 U   | 9.1 U            | 1              | 9.1 U          |          | 9.1  | 9.1        | NA             | NA          |
| (renamed SB-129)  | 04/27/1998        | soil                       | 8 TO 10              |         | 263.7 DU       |                | NA      | ΑN               | 572,700.0 U    |                |          |  | -          |                | AN          |
| (renamed SB-135)  | 07/01/1998        | soil                       | 8 TO 10              |         | 4              |                | NA      | AN.              | ~              |                |          |  |            | 1,100.0 U      | 11,400.0 U  |
|                   | 12/01/1998        | soil                       | 18 TO 20             | 2.3     | 2.3 U          | 2.3 U          | 2.3 U   | 2.3 U            |                | 2.3            | 2.3 U    | 2.3 U  | 9.1 U      | NA.            | AN ST       |
| (renamed SB-129)  | 04/27/1998        | soil                       | 18 10 20             |         | 1,160.0 U      |                | Y S     | Y Z              | 0.009,11       | 11,600.0       |          |  |            | 1 200 0        | 12 000 0    |
| renamed SB-135)   | 12/01/1998        | lios                       | 20 10 20             | NA CC   | NA             | 2.2            | 1 66    | 22               | 100            | 12,000.0       |          | 11 66  | 8.8        | -              | AN AN       |
| roomed CD 1301    | 04/27/1998        | 5                          | 28 TO 30             | 2.2     | 1 060 0        | 7.7            | NAN     | AN               | 1              |                |          |  |            | NA             | AN          |
| (renamed SB-135)  | 07/01/1998        | soil                       | 28 TO 30             |         | 14             |                | AN      | AN               | NA             |                | A N      |  | A N        | 1,200.0 U      | 11,800.0 U  |
| MW-120            |                   | Г                          |                      |         |                |                |         |                  |                |                |          |  |            | NA             | NA          |
|                   | 11/28/1997        | soil                       | 9 TO11               | 2.3 U   | 2.3 U          | 2.3            | 2.3     | 2.3 U            | 2.3 U          | 2.3 U          | 2.3 U    | 2.3  | 9.3 U      | NA             | νN          |
| (renamed SB-127)  | 04/27/1998        |                            | 8 TO 10              |         | 1,140.0 U      |                |         | NA               | 11,400.0       |                | NA       |  |            | - 1            | AN          |
| renamed SB-133)   | 07/01/1998        | П                          | 8 TO 10              |         |                |                |         | NA               | z              | 11,700.0 U     | NA       | The state of the s |            | 1,200.0 U      | 11,700.0    |
|                   | 11/28/1997        | Т                          | 18 TO 19             | 2.3     | - 1            | 2.3            | 2.3     | 2.3 U            | 2.3 U          | 2.3 U          | 2.3 U    | 2.3  | 9.1        | NA.            | AN S        |
| (renamed SB-127)  | 04/28/1998        | T                          | 18 TO 20             |         | 1,240.0 U      | Y Z            |         | Y Y              | 12,400.0       | 12,400.0       | ¥ 2      |  | NA NA      | 1 100 D        | 10 900 01   |
| (renamed SB-133)  | 44/27/1008        | io a                       | 28 TO 30             | 25 11   | 25 11          | 2.6            | 25      | 25 11            | 25 11          | 2.5            |          | 2.5  | 10.0       | 1              | AN          |
| (renamed SB-127)  | 04/27/1998        | soil                       | 20 to 30             | 2.7     | 1,220.0 U      |                | NA      | AN<br>AN         | 12,200.0 U     | 3,500.0 F      |          |  |            | AN             | AN          |
| (renamed SB-133)  | 07/01/1998        | soil                       | 28 TO 30             |         | -              |                | AN      | AN               | ız             | 12,600.0       | NA       |  |            | 1,300.0 U      | 12,600.0 U  |
|                   | 11/28/1998        | soil                       | 39 TO 40             | 2.4 NA  | 2.4 U          | 2.4 U          | 2.4 U   | 2.4 U            | 2.4 U          | 2.4            | 2.4      | 2.4 U  | 9.7 U      | AN             | AN.         |
| MW-121            |                   | - 1                        |                      | - 1     | - 1            |                |         | - 1              | - 1            |                | 0 0 30   | - 1  | 1000       | AN S           | AN AN       |
|                   | 11/28/1997        |                            | 8 TO 10              | 5.0 0.  | 5.0 U          | 5.0            | 5.0     | 0.0              | 11 800 0       | 11 0000 11     | 35.3     | 0.0  | 0 8.8.     | AN AN          | AN          |
| (renamed SB-128)  | 07/01/1998        | E COS                      | 2 C                  |         |                |                |         | AN               | Z              | 220,300.0 JD   |          |  |            | 1.052.050.0    | 243,900.0 U |
| Con paller        | 11/28/1997        | soil                       | 18 TO 20             | 4.8     | 4.8 U          | 4.8            | 4.8     | 4.8 ∪            | 4.8 U          | 4.8            | 50.0     | 4.8  | 19.0       | 1              | NA          |
| (renamed SB-128)  | 04/27/1998        | soil                       | 18 TO 20             |         |                |                |         | ΝA               | 11,600.0 U     | 11,60          | AN       |  | NA         | NA             | NA          |
| renamed SB-134)   | 07/01/1998        | soil                       | 18 TO 20             |         |                |                |         | AN<br>A          | AN             | 24,900.0       | ,        |  |            | 148,100.0 U    | 11,800.0    |
|                   | 11/28/1997        | SOI                        | 28 TO 30             | 2.5     | 2.5 U          | 2.5 U          | 2.5 U   | 2.5 U            | 2.5 U          | 7 540 4000 0   | 3.4      | 10.0 U   | 6.5        | 1 855 800 0 11 | 1 324 500 0 |
| (renamed SB-134)  | 0//01/1880        | SOIL                       | 20.07                | YN.     | YN.            |                | V.      | 2                | VA.            | 0.001,046,1    |          |  |            |                | AN CONTRACT |
| MVV-122           | 12/01/1997        | soil                       | 8 TO 10              | 2.2 U   | 2.2 U          | 2.2            | 2.2 U   | 2.2 U            |                | 2.2 U          | 2.2 U    | 2.2  | 9.0        | AN             | NA          |
| (renamed SB-125)  | 04/27/1998        | soil                       | 8 TO 10              | AN      | 1,474,060.0 DU |                | NA      | NA               | 11,800.0 U     |                |          |  |            | NA             | νN          |
| (renamed SB-131)  | 07/01/1998        | soil                       | 8 TO 10              |         | -              |                | NA      | NA               | NA             |                |          |  |            |                | 22,300.0 L  |
|                   | 12/01/1997        | soil                       | 18 TO 20             | 2.4     | 2.4 U          | 2.4            | 2.4 U   | 2.4 U            |                | 2.4            | 2.4      | 2.4  | 9.4 U      | Y S            | AN AN       |
| (renamed SB-125)  | 04/2//1998        | Soll                       | 18 10 20<br>18 TO 20 |         | U U.OCE, L     | AN AN          | 4 4     | AN AN            | 4N UUU.01      | 12 700 0       |          |  |            | 1300.0         | 12.700.0    |
| (lengther op-131) | 12/01/1997        | soil                       | 28 TO 30             | 2.5 U   | 2.5 U          | 2.5            | 2.5 U   | 2.5 U            | 2.5 U          | 2.5            | 2.5      |  | 10.0       |                | NA          |
| (renamed SB-125)  | 04/27/1998        | soil                       | 28 TO 30             |         | 1,150.0 U      |                | AN      | NA               | 13,500.0 U     | 13,500.0 U     |          | NA   | NA         | П              | NA          |
| (renamed SB-131)  | 07/01/1998        | soil                       | 28 TO 30             | AN      |                |                | AN      | NA               | NA             |                | NA       |  |            | 1,300.0 U      | 13,100.0 U  |
| MW-124            |                   |                            |                      |         |                | į              |         |                  |                |                |          | 0  | 0          | NA             | NA          |
|                   | 12/01/1997        | -                          | 8 10 10              | 2.3 U   | 2.3 U          | 2.3            | 2.3 0   | Z.3 U            | 11 500 0 11    | 44 5000 11     | Z.3 U    | 2.3  | 42         | AN             | AN          |
| (renamed SB-125)  | 04/2//1990        | 1                          | 20.00                | Y A     | AN             | Y AN           |         | Y Y              | 12             | 5.500.0        | Y Y      |  |            | 1,200.0 U      | 12,200.0 U  |
| (Sol on house)    | 12/01/1997        | soil                       | 18 TO 20             | 2.3     |                | 2.3            | 2.3     | 2.3 U            |                |                | 6.0      | 2.3  | 9.3        | iΙ             | AN          |
| (renamed SB-126)  | 04/27/1998        | soil                       | 18 TO 20             |         | 1,150.0 U      |                |         |                  | 11,500.0 U     |                | NA       |  | ΝΑ         | ı,             | AN          |
| (renamed SB-132)  | 07/01/1998        | soil                       | 18 TO 20             |         | Z.             | 1              | 1       | AN .             |                | 11,60          | AN .     |  | 0          | 1,200.0        | 11,600.0    |
| 1000              | 12/01/1997        | soil                       | 28 TO 30             | 2.3     | 1 1400 11      | 2.3 U          | 2.3 U   | 2.3 U            | 11 400 0 11    |                | 2.3 U    | 2.3 U  | 3.2<br>8.2 | AZ X           | AN AN       |
| (renamed SB-120)  | 07/01/1998        | io                         | 28 TO 30             | AN AN   | 12             |                |         | AN               |                | 12,900.0       | NA       |  | ¥2         | 1,300.0 U      | 12,900.0 U  |
| Tanana namenan    |                   |                            |                      | l       |                |                |         |                  |                |                |          |  |            |                |             |

#### Kelly Air Force Base San Antonio, Texas TPH Soil Results

|                            | ¥      | ¥   | ş          | ¥          | ۲          | ۲    | ¥          | ¥  | ٩  | <b>₹</b>   | ž  | ₹    | ¥          | ₹          | ≨          | ₹    | ₹          | ¥          |
|----------------------------|--------|-----|------------|------------|------------|------|------------|----|----|------------|----|------|------------|------------|------------|------|------------|------------|
|                            | -      | -   | -          | _          |            | _    | -          | _  |    |            |    | -    | _          | _          |            |      |            | -          |
| DRO                        |        |     |            |            |            |      |            |    |    |            |    |      |            |            |            |      |            |            |
|                            | ¥      | ΑN  | ΑN         | AN         | ¥          | Ϋ́   | Ä          | ¥  | ΑN | ¥          | Ϋ́ | ¥    | Ϋ́         | ¥          | 0          | ٧×   | ¥          | ž          |
| GRO                        |        |     |            |            |            |      |            |    |    |            |    |      |            |            | 490        |      |            |            |
| 9                          |        |     |            |            |            |      |            |    |    |            |    |      |            |            |            |      |            |            |
|                            | Ϋ́     | AN  | AN         | 9.3 U      | 0.0 U      | NA   | AN         | NA | NA | Ϋ́         | ¥  | Ϋ́   | ΑN         | ΑN         | Ϋ́         | ٧V   | ¥          | Ϋ́         |
| Heavy                      |        | -   |            | -          | -          |      | 1          | _  |    |            |    |      |            |            |            |      |            |            |
| -                          | NA     | NA  | Ν̈́        | 2.3        | 2.5 ∟      | NA   | NA         | NA | NA | NA         | NA | Ž    | NA         | NA         | AN         | NA   | ΝA         | AN         |
| Diesel                     |        |     |            |            |            |      |            |    |    |            |    |      |            |            |            |      |            |            |
| 2                          | AN     | Ϋ́  | Ϋ́         | 2.3 U      | 2.5 U      | ΝA   | NA         | ΝA | NA | ΑN         | ΑN | Ϋ́   | Ä          | AN         | ¥          | ΑN   | Y.         | A<br>A     |
| Kerasene                   |        |     |            |            |            |      |            |    |    |            |    |      |            |            |            |      |            |            |
|                            | AN     | AN  | ΝA         | 2.3 U      | 2.5 U      | NA   | ٧A         | NA | ΝA | AN         | NA | Ž    | NA         | A.         | Ϋ́         | ΝA   | Ϋ́         | AN.        |
| Jet<br>Fuel #5             |        |     |            |            |            |      |            |    |    |            |    |      |            |            |            |      |            |            |
|                            | MA     | ¥   | ₹          | ס          | ח          | NA   | AN         | NA | NA | NA         | ٨  | ΑA   | NA         | ٨A         | NA         | NA   | NA         | NA         |
| Jet<br>Fuel #4             | _      | _   | _          | 2.3 U      | 2.5 U      | -    | _          | 4  | 2  | 4          | _  | _    | -          | _          | _          | _    |            | _          |
| Fue                        |        |     |            |            |            |      |            |    |    |            |    |      |            |            |            |      |            |            |
| nt<br>ner                  | AA     | NA  | Ϋ́         | 2.3 U      | 2.5 U      | NA   | NA         | NA | NA | NA         | AN | ¥    | NA         | ¥          | Ϋ́         | AN   | NA         | ž          |
| Paint<br>Thinner           | ٧      | Y.A | ¥          | ח          | n          | A    | ٧          | NA | A  | NA         | 4  | 4    | ٧          | A          | NA         | A    | A          | ×          |
| Stoddard<br>Solvent        | Z      | z   | Z          | 2.3        | 2.5 U      | Z    | z          | Z  | Z  | Z          | z  | z    | z          | Z          | Z          | Z    | z          | z          |
| Sto                        | Ā      | NA  | ΝA         | 3 U        | כ          | ΝΑ   | NA         | NA | NA | NA         | Ä  | ΑA   | NA         | NA         | NA         | NA   | AN         | NA         |
| Mineral<br>Oil             |        |     |            | 2.3        | 2.5        |      |            |    |    |            |    |      |            |            |            |      |            |            |
|                            | NA     | NA  | NA         | 2.3 ∪      | 2.5 U      | NA   | NA         | NA | NA | NA         | AN | AN   | NA         | NA         | ΝA         | NA   | Ϋ́         | Ϋ́         |
| Gasoline                   |        |     |            | 2          | 2          |      |            |    |    |            |    |      |            |            |            |      |            |            |
| Ö                          | 1      | ١   | 1          | _          |            | _    | 1          | ١  | ١. | 1          | -  | 1    | ١          | 4          | 4          | ١    | 1          | 1          |
| htha                       | NA     | NA  | AN         | 2.3        | 2.5        | NA   | NA         | NA | NA | NA         | NA | NA   | NA         | NA         | NA         | NA   | NA         | NA         |
| Depth Naphtha              |        |     | 0          | 20         | 30         |      |            | _  |    | L          |    | L    | _          | _          |            | L    |            |            |
|                            |        |     | 8 TO 10    | 18 TO 20   | 28 TO 30   |      |            |    |    |            |    |      |            |            |            |      |            |            |
| Matrix<br>Soil or<br>Water |        |     | soil       | soil       | soil       |      | water      |    |    | water      |    |      | water      | water      | water      |      | water      | water      |
|                            |        |     | 11/28/1997 | 11/28/1997 | 12/01/1998 |      | 04/27/1998 |    |    | 04/27/1998 |    |      | 12/24/1997 | 04/27/1998 | 07/01/1998 |      | 12/24/1997 | 04/27/1998 |
| Date<br>Analyzed:          |        |     | 11/28      | 11/28      | 12/01      |      | 04/27      |    |    | 04/27      |    |      | 12/24      | 04/27      | 07/01      |      | 12/24      | 04/27      |
| Sample ID:                 |        |     |            |            |            |      |            |    |    |            |    |      |            |            |            |      |            |            |
| Samp                       | SB-118 |     |            |            |            | EB-1 |            |    | Z  |            |    | AB-1 |            |            |            | TB-1 |            |            |

Notes:

U - The analyte was analyzed for but not detected. The associated numeric value is at or below the MDL.

D - The compound was found in an analysis at at a secondary dilution factor.

D - The compound was positively identified but the associated numerical value is below the reporting limit.

E - The analyte was positively identified but the associated numerical value is below the reporting limit.

B - The analyte was obtained from a 1:25,000 dilution.

A - Value was obtained from a 1:25,000 dilution.

NA - The analyte was not analyzed for this compound.

All units are ug/kg or ug/l (ppb).

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| Sample ID:   | Date<br>Analyzed: | Matrix (     | Depth     | Dichloro-<br>difluoro- | Chloro-<br>methane | - Vinyl<br>Chloride | Bromo-<br>methane | Chloro-<br>ethane | Trichloro-<br>fluoro- | 1,1 Di-<br>chloro- | Methylene<br>chloride | Trans-1,2<br>dichloro- | 1,1 Di-<br>chloro- | 2,2 Di-<br>chloro- | Cis-1,2 Di-<br>chloro- | Bromo-<br>chloro- | Chloroform | 1,1,1-Tri-<br>chloro | Carbon<br>Tetra |       |
|--|-------------------|--------------|-----------|------------------------|--------------------|---------------------|-------------------|-------------------|-----------------------|--------------------|-----------------------|------------------------|--------------------|--------------------|------------------------|-------------------|------------|----------------------|-----------------|-------|
| 100  |                   | Water        | 1         | methane                |                    |                     |                   |                   | methane               | ethene             |                       | ethene                 | ethane             | propane            | ethene                 | methane           |            | ethane               | Chloride        |       |
| MVV-UU/  | 12/01/1997        | $^{\dagger}$ | 8 TO 10   | 28.0                   | 40 11              | 51.0                | 28                | 28.0.11           |                       | 34.0               | 78 0 BD               | - 1                    |                    |                    |                        | 110               |            | 23.0                 | 67.0            | =     |
| renamed SB-130)  | 04/28/1998        | Soli         | 8 TO 10   | 28.0 U                 |                    | 51.0 U              | 28.0 U            | 28.0 13           | 23 U                  | 17.0 FD            | 0.00                  | 27.0 D                 | 504.0 D            | 112.0              | 23.961.0               | 110               | 1100       | 301.0                | 5.00            | 5 3   |
| renamed SB-136)  | 07/01/1998        | T            | 8 TO 10   | 1                      |                    | 10.0                | 9                 | 6.0 U             |                       | 7.0                | 2.0 U                 |                        |                    |                    | 7.0                    | 2.0               |            | 5.0 U                | 12.0            | 0     |
| 1  | 09/02/1998        |              | 8 TO 10   | 0.9                    | U 0.6              | 0.9                 | 9                 | 0.00              |                       | 8.0                | 3.0 U                 | 1                      |                    |                    |                        | 3.0               |            |                      | 13.0            | D     |
| (renamed SB-185  | 05/11/1999        | -            | 8 TO 10   |                        |                    | 0.6                 | S                 | 9.0 U             | 1                     | 0.9                | 2.0 U                 |                        |                    |                    | 10.0                   | 1                 |            | i                    | 10.0            |       |
|  | 12/01/1997        |              | 18 TO 20  | 0.9                    |                    | 6.0                 | 9                 | 0.0 U             |                       | 7.0                | 22.0 B                | 1                      |                    | L                  | 1,148.0                |                   |            | 5.0 U                | 12.0            | ⊃     |
| (renamed SB-130)   | 04/28/1998        |              | 18 TO 20  |                        | 1                  | 11.0                | 9                 | 0.0 U             |                       | 8.0                | 22.0                  | 3.0 F                  |                    |                    | 2,604.0                |                   |            | 1 :                  | 13.0            | Þ     |
| (renamed SB-136)   | 07/01/1998        |              | 18 TO 20  |                        |                    | 11.0                | 9                 | 0.0 U             |                       | 7                  | 2.0 U                 |                        |                    |                    | 7.0                    |                   |            | 1                    | 12.0            | 5     |
| (renamed SB-142)   | 09/02/1998        |              | 18 TO 20  | 1                      | 1                  | 10.0                |                   | 0.0 U             | ł                     | 7                  | 52.0                  | 3.0 U                  | 2.0 U              |                    | 7.0                    | 1                 |            | 1                    | 12.0            | Þ     |
| (renamed SB-185)   | 05/11/1999        | Г            | 18 TO 20  | ł                      | 1                  | 0.6                 |                   | 5.0 U             | 1                     | 0.9                | 2.0 U                 |                        |                    |                    | 7.2                    |                   |            |                      | 10.0            | 5     |
| (renamed SB-123)   | 11/28/1997        | Г            | 28 TO 30  | ı                      | 1                  | 92.0                |                   | 6.0 1             | 1                     | 3.0                | 8.0 B                 | 12.0                   | 1                  | L                  | 1                      | 3.0               |            |                      | 12.0            |       |
| 1  | 04/28/199R        | Τ            | 28 TO 30  | 1                      | 1                  | 55.0                |                   | 31011             |                       | 42.0               | 910                   |                        | 1                  |                    | 1                      |                   | 47.0       | 228.0                | 0.10            | ) =   |
|  | 07/04/4008        | Τ            | 02 OT 90  |                        | 1                  | 44.0                |                   | 2 2               |                       | 4.0                | 2 2                   |                        |                    |                    | -                      | 200               | 2          | 220.0                | 2.0             | 0     |
| renamed SD-130)  | 0000110000        | T            | 20 07 00  | 1                      |                    | 2 5                 |                   | 0.0               |                       |                    | 0.00                  | 0 0                    |                    |                    |                        | 0.0               | 000        | 0.0                  | 2.0             |       |
|  | 08/02/1990        | Τ            | 28 10 30  | 0.00                   |                    |                     | 0.0               | 0.0               | - 1                   | 0.0                | 0.67                  |                        | 200                |                    | 7.44                   | 0.2               |            | 0.0                  | 10.0            | 0   0 |
|  | 000               | Т            | 200       | 1                      | -                  | 0.6                 |                   | 0.00              | - 1                   | 1                  | 2.0                   | 0.5                    | ١                  | I                  | -                      | - 1               | 2.0        |                      | 0.01            |       |
| 81 -MM   | 7000110101        | 100          | 04.04.0   | 0 00                   |                    | 0.10                | 0.00              |                   |                       | - {                | 000                   | 0.11                   |                    |                    |                        |                   | 1          | 0.00                 | 0               |       |
|  | 12/01/1997        | Т            | 200       | - 1                    | -                  | 0.0                 |                   | 70.00             |                       |                    | 68.0 80               | 0./1                   | ł                  |                    | 0.65                   |                   |            | 23.0 U               | 20.00           | 0     |
| (renamed SB-129)   | 04/27/1998        | Т            | 8 10 10   | - 1                    |                    | 52.0                |                   | 29.0 U            |                       |                    | 73.0 D                | 17.0 U                 | 12.0 U             |                    | 14.0                   |                   |            | - 1                  | 58.0            | 0     |
| (renamed SB-135)   | 07/01/1998        | Т            | 8 10 10   | - 1                    | - 1                | 10.0                |                   | 0.0<br>0.0        | - 1                   | - 1                | 2.0 U                 | 3.0 U                  | - 1                |                    | 7.0                    | - 1               |            | - 4                  | 11.0            | 2     |
| (renamed SB-141)   | 09/02/1998        | П            | 8 TO 10   | - 1                    | - 1                | 51.0                |                   | 28.0 U            |                       |                    |                       | 17.0 U                 |                    |                    | 34.0                   |                   |            | - 1                  | 26.0            | 5     |
| (renamed SB-184)   | 05/11/1999        | Т            | 8 TO 10   | 5.0 U                  | - 1                | 9.0                 |                   | 5.0 U             | - 1                   | - 1                | 2.0 U                 | 3.0 U                  | - 1                |                    | -                      | 2.0               |            | - 1                  | 10.0            | ם     |
|  | 12/01/1997        | П            | 18 TO 20  | ı                      |                    | 11.0                |                   | 6.0 U             |                       |                    |                       | 4.0<br>U               |                    |                    |                        | 3.0               |            |                      | 12.0            | D     |
| (renamed SB-129)   | 04/27/1998        | П            | 18 TO 20  | - 1                    |                    | 11.0                |                   | 6.0 U             |                       |                    | 10.0                  | D. 0.4                 |                    |                    | -                      | 2.0               |            | - 1                  | 12.0            | D     |
| (renamed SB-135)   | 07/01/1998        | soil         | 18 TO 20  | 0.9                    | 8.0 U              | 11.0 U              | 6.0 U             | 0.0 U             | 5.0 U                 | 7.0 U              | 40.0                  | 4.0 U                  | 2.0 U              |                    | 7.0                    |                   | U 2:0 U    | 9.0 O                | 12.0            | D     |
| renamed SB-141)  | 09/02/1998        | П            | 18 TO 20  |                        |                    | 10.0                |                   | 6.0 U             | - 1                   |                    | 26.0                  | 3.0 U                  | -                  |                    |                        | 2.0               |            | - 1                  | 12.0            | ס     |
| (renamed SB-184)   | 05/11/1999        |              | 18 TO 20  |                        |                    | 9.0                 |                   | 5.0 U             | 4.0 U                 |                    | 2.0 U                 | 5.6                    | 15.7               | 20.0 U             |                        | 2.0               |            |                      | 10.0            | D     |
|  | 12/01/1997        |              | 28 TO 30  |                        |                    | 48.0                | U 27.0 U          | 27.0 U            | 22.0 U                | 32.0 ∪             | 66.0 BD               | 16.0 U                 | 11.0 L             | 108.0 U            |                        | ı                 |            | ł .                  | 54.0            | n     |
| (renamed SB-129)   | 04/27/1998        |              | 28 TO 30  | ı                      |                    | 10.0                |                   | 5.0 U             | 4.0 U                 | 0.9                | 8.0                   | 3.0 U                  | 2.0                | 21.0 U             |                        | 2.0               |            |                      | 11.0            | ח     |
| (renamed SB-135)   | 07/01/1998        | Г            | 28 TO 30  | O 0.9                  | 8.0 U              | 3.0                 | 0.8<br>U          | 6.0 U             | 5.0 U                 | 7.0 U              | 27.0                  | 4.0 U                  | 2.0                | 24.0 U             | 49.0                   | 1                 |            |                      | 12.0            | n     |
| (renamed SB-141)   | 09/02/1998        |              | 28 TO 30  | 1                      |                    | 10.0                |                   | 5.0 U             | 4.0 U                 | 6.0 U              | 19.0                  | 3.0 U                  | 1                  |                    | 14.0                   | 1                 |            | 1                    | 11.0            | n     |
| (renamed SB-184)   | 05/11/1999        | soil         | 28 TO 30  | 5.0 U                  | 5.0 U              | 9.0 U               |                   | 5.0 U             | 4.0 U                 | 0.9                | 2.0 U                 | 3.0 U                  | 2.0 U              | J 20.0 U           | 3.0                    | U 2.0 U           | U 2:0 U    | 1                    | 10.0            | ח     |
| MW-120   |                   |              |           |                        |                    |                     |                   |                   |                       |                    |                       |                        |                    |                    |                        |                   |            |                      |                 |       |
|  | 11/28/1997        |              | 9 TO11    | 0.9                    | 8.0 U              |                     | 0.9               | 6.0 U             | 5.0 U                 | U 0.7              | 7.0 B                 | 4.0 U                  | 2.0 U              | J 23.0 U           | 2.0                    | F 2.0 U           | U 2:0 U    | 5.0                  | 12.0            | ר     |
| (renamed SB-127)   | 04/27/1998        | soil         | 8 TO 10   | 0.9                    | 8.0 U              | 10.0                |                   | Π9                | 5.0 U                 | 7.0 U              | 13.0                  | 3.0 U                  | 2.0 U              |                    | 4.0                    |                   |            |                      | 11.0            | ס     |
| (renamed SB-133)   | 07/01/1998        |              | 8 TO 10   |                        |                    | 11                  | 0 9               | 0.9               | 5 ∪                   | 7 U                | 35.0                  | 4.0 U                  |                    | L                  | 15.0                   | ĺ                 | 2.0        | 5.0                  | 12.0            | D     |
| (renamed SB-139)   | 09/02/1998        | Г            | 8 TO 10   | N 9                    | 8                  | 10                  | 9                 | D 9               | 5 U                   | 0 V                | 66.0                  | 3.0 U                  |                    |                    | 7.0                    |                   | 2.0        | 5.0                  | 12.0            | >     |
| (renamed S8-182)   | 05/11/1999        | П            | 8 TO 10   |                        |                    | 6                   | o s               | 9.0               |                       |                    | 2.0 U                 | 3.0 U                  |                    |                    | 16.6                   |                   | 2.0        | 4.0                  | 10.0            | D     |
|  | 11/28/1997        |              | 18 TO 19  | 1                      |                    | 10.0                | 0.9 U             | 6.0 U             | 1                     | 1                  | 7.0 B                 | 3.0 U                  |                    | L                  | 5.0                    |                   | 2.0        | 5.0                  | 11.0            | D     |
| (renamed SB-127)   | 04/28/1998        |              | 18 TO 20  | l                      |                    | 11.0                | 0.9 N             | 0.0 U             |                       |                    | 11.0                  | 4.0 U                  |                    |                    | 5.0                    | 1                 | 3.0        | 5.0                  | 12.0            | ס     |
| (renamed SB-133)   | 07/01/1998        |              | 18 TO 20  | 0.9                    | 8.0 U              | 10.0                |                   | 6.0 U             | 4.0 U                 | 7.0 U              | 32.0                  | 3.0 U                  | 2.0 U              |                    | 7.0                    |                   | 2.0        | 4.0                  | 11.0            | כ     |
| (renamed S8-139)   | 09/02/1998        | Г            | 18 TO 20  |                        |                    | 10.0                |                   | 0.0 ∪             |                       | 1                  | 36.0                  | 3.0 U                  |                    |                    | 7.0                    |                   |            | 5.0                  | 12.0            | ס     |
| (renamed SB-182)   | 05/11/1999        |              | 18 TO 20  |                        |                    | 9.6                 | 5.0 U             | 5.0 U             |                       |                    | 2.0 U                 | 3.0 U                  |                    |                    | 58.8                   | 1                 | 2.0        | 4.0                  | 10.0            | סן    |
|  | 11/28/1997        | Γ            | 28 TO 30  | 1                      | 1                  | 11.0                | 0.9 U             | 0.0 ∪             | 1                     | 2.0 F              | 17.0 B                | 4.0 U                  |                    |                    | 429.0                  | 1                 | 4.0        | 5.0                  | 13.0            | ס     |
| (renamed SB-127)   | 04/27/1998        |              | 20 to 30  | 1                      | ŀ                  | 11.0                |                   | 0.0 ∪             | 1                     |                    | 12.0                  | 4.0 U                  |                    |                    | 50.0                   |                   |            | i                    | 12.0            | כ     |
| _  | 07/01/1998        |              | 28 TO 30  | 0.9                    |                    | 11.0                | 0.9 U             | 0.0 U             |                       | ı                  | 34.0                  | 4.0 U                  |                    |                    | 3.0                    |                   |            |                      | 13.0            | O     |
| 1  | 09/02/1998        |              | 28 TO 30  | ł                      | 9.0 U              | 11.0                |                   | 0.9               | 5.0 U                 | 8.0 U              | 34.0                  | 4.0 U                  |                    |                    | 25.0                   | ļ                 |            |                      | 12.0            | ⊃     |
|  | 05/11/1999        |              | 28 TO 30  | 1                      | j                  | 0.6                 |                   | 5.0 U             |                       | 6.0 U              | 2.0 U                 | 3.0 U                  |                    |                    | 1,160.0                | ļ                 |            |                      | 10.0            | Э     |
| 1  | 11/28/1997        |              | 39 TO 40  | 1                      | 1                  | 11.0                | 0.9               | 6.0 U             | ı                     | 7.0 U              | 18.0 B                | 4.0 U                  | L                  |                    | 5.0                    |                   |            | 5.0 U                | 12.0            | 5     |
| MW-121   |                   |              |           |                        |                    |                     |                   |                   |                       |                    |                       |                        |                    |                    |                        |                   |            |                      |                 |       |
|  | 11/28/1997        |              | 8 TO 10   | 1                      |                    | 11.0                |                   | 6.0 U             |                       | 8.0 U              | 36.0 B                | 4.0 U                  |                    | L                  |                        | 3.0               |            | 5.0 U                | 13.0            | ר     |
| (renamed SB-128)   | 04/27/1998        |              | 8 TO 10   | 0.9                    | 8.0 U              | 11.0                |                   | 0.0 O             | 1                     | 7.0 U              | 17.0                  | 4.0 U                  | 2.0 U              | L                  | 7.0                    | 1                 |            | 5.0 U                | 12.0            | ס     |
| (renamed SB-134)   | 07/01/1998        | T            | 8 TO 10   | 1                      | 1                  | 1372                | 7                 | 762 U             | 1                     | 915 U              | 183.0 F               | 457.0 U                |                    | ("                 |                        | 305.0             |            | 610.0 U              | 1,524.0         | n     |
| (renamed SB-140)   | 09/02/1998        | T            | 8 TO 10   | 1                      | 1                  | 52                  |                   | 11 62             |                       | 35 11              | 113.0                 | 17.0 11                |                    |                    |                        | 12.0              |            | 23.0 U               | 58.0            | 13    |
| (renamed SR-183)   | 05/11/1999        | T            | 8 TO 10   | 1                      |                    | 509                 |                   | 25 11             | 1                     |                    | 10.01                 | 1410                   | 1                  | l                  |                        | 1                 |            | 570.0                | 20.0            | =     |
|  | 11/28/1997        | T            | 18 TO 201 | 1                      | 80                 | C                   |                   | 1108              | 1                     | 1                  | 140 8                 | 44.0                   |                    | L                  |                        | 26                |            | 5.0                  | 12.0            |       |
| 4  | 04/77/4009        | Ť            | 10 70 30  | - 1                    | 0 0                | 2                   |                   | 200               | 1                     | - 1                | 2                     | 2.0                    | 0.00               | 24.0               |                        | 340               |            | 200                  | 420             | =     |
|  | 07/04/4000        | Ť            | 10 TO 20  |                        | 0                  |                     |                   |                   |                       | - 1                | 0.00                  |                        | 0.7                | 23.0               |                        |                   |            | 0 0                  | 120             | 5     |
|  | 00/07/1930        | Ť            | 10 10 20  |                        | 0.5                | 0 0                 | Č                 | 0.00              |                       | 0.7                | 0.621                 | 0.10                   | 2.0                | 746.0              |                        | 2.0               |            | 0.00                 | 12.0            | 5 5   |
|  | 08/07/1880        | Ť            | 10 10 20  | 28.0                   | 0.14               | 22.0                |                   | 0.62              |                       |                    | 38.0                  | 0.70                   | 12.0               | 0.00               | 14.0                   | - 1               |            | 23.0                 | 20.0            | 5 2   |
| (renamed 30-103)   | 44/20/4007        | †            | 20 10 20  | - 1                    | 0.00               | 2.0                 |                   | 0.00              | -                     | 0.00               | 0 0 0                 | 0.00                   | 0.0                | 20.00              | 1                      | 200               |            | 0 -                  | 130             |       |
| (ACT GD Lamones)   | 07/01/1998        | T            | 28 TO 30  | 822                    | 1151               | 1480                | 822               | 0.00              |                       | 0.47               | 204 O E               | 12.0                   | 220.0              | 3 200 0            |                        |                   |            | 9.00                 | 1845.0          | o j=  |
| (renamed SB-140)   | 09/02/1998        | io io        | 28 TO 30  | 9                      | 2                  | 11 0                |                   | 022 U             | 929                   | 1000               | 120                   | 493.0                  | 300                | 2,230.0            | 200                    | 3.63.             | 30.0       | 0.90                 | 13.0            |       |
| (a) (a) (a) (b) (a) (b) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c | -                 | 1            | 200       | 1                      | >                  | -                   | ,                 | ,                 | - 1                   | >                  | 2.4                   | 2.7.                   | > >                | 2004               | 4.4                    | - 1               |            | 3                    |                 | Ī     |

Notes:

Very the analyzed for but not detected. The associated numeric value is at or below the MDL.

U. The analyzed was analyzed for but not detected. The associated numeric value is at or below the MDL.

F. The analyze was tourid in an analysis at at a secondary dividen factor.

F. The analyze was note that the sample of the instrument.

F. The analyze was noted on the calibration analyzed of the instrument.

F. Value was obtained from a 1:1000 diution.

- all results are in may be was not analyzed for this compound.

NA - The analyze was not analyzed for this compound.

All units are ugikg or ugil (pib).

| MW-007<br>(renamed SB-123)   |            | Water |          |            |         |          | culoro-      | chioro- | methane  | dichloro- | dichloro- |           | diction of |            | hexane | chloro-    |         | chioro- |
|--|------------|-------|----------|------------|---------|----------|--------------|---------|----------|-----------|-----------|-----------|------------|------------|--------|------------|---------|---------|
| (renamed SB-123)   |            |       |          | propene    |         | ethane   | ethene       | propane |          | methane   | propene   |           | propene    | ethane     |        | ethene     | propane | methane |
| (renamed SB-130)   | 12/01/1997 |       | 8 TO 10  | -          |         | U U 71   |              |         | J 57.0 U | 23.0 U    | - 1       | 28.0 U    | 28.0 U     | 28:0 U     |        | 40.0 U     | 11.0 U  | 17.0 L  |
| ( The second sec | 04/28/1998 | soil  | 8 TO 10  | 28.0 U     | 150.0 D | 17 U U   | 316,742.0 D! | 11.0 U  | J 56.0 U | J 23.0 U  | 28.0 U    | 67        | 28.0 U     | 28.0 U     | 17.0 U | 892.0 D    | 11.0 U  | 17.0 U  |
| (renamed SB-136)   | 07/01/1998 |       | 8 TO 10  |            |         | 3.0 U    | 12.0 U       | 2.0 ℃   | J 12.0 L |           | 9.0       |           |            | 0.9        |        | 8.0 U      |         | 3.0 6   |
| (renamed SB-142)   | 09/02/1998 |       | 8 TO 10  |            |         | U 4.0 U  | 13.0 U       |         |          | J 5.0 U   | 6.0       | 9.0 U     | 0.9        |            |        | 9.0 U      | 3.0 U   | 4.0 L   |
| (renamed SB-185)   | 05/11/1999 |       | 8 TO 10  |            |         | 3.0      | 10.0 U       | - 1     |          | - 1       | 5.0       |           | - [        | - 1        | - 1    | 7.0 U      | - 1     | 3.0 ∟   |
| (renamed SB-123)   | 12/01/1997 |       | 18 TO 20 |            |         | 2.0 F    | 189.0        | - 1     |          | - 1       | 6.0       | 10.0      |            | - 1        | - 3    | 8.0 C      | - 1     | 3.0 L   |
| (renamed SB-130)   | 04/28/1998 |       | 18 TO 20 |            |         | 7.0      | 2,217.0      | - 1     | 13.0     | 5.0       | 6.0       | 347.0     | - 1        |            |        | 7.0 F      | - 1     | 4.0 U   |
| (renamed SB-136)   | 07/01/1998 |       | 18 TO 20 |            |         | 0.4      | 12.0 U       | - 1     | 12.0     | 9.0       | 9.0       | 6.0       | - 1        | - 1        | - 1    | 8.0 U      | - 1     | 4.0 L   |
| (renamed SB-142)   | 09/02/1998 |       | 18 10 20 | 6.0        | 2.0 U   | 3.0      | 12.0 U       | - 1     |          | 2.0       | 0.9       |           | - 1        | 0.9        | - 1    | 8.0 U      | 2.0 U   | 3.0 ℃   |
| (renamed SB-185)   | 05/11/1999 |       | 18 10 20 |            |         | 3.0 U    | 10.0 U       | - 1     | 10.0     | 4.0       | 2.0       | 5.0       | - 1        | - 1        | - 1    | 7.0 U      | - 1     | 3.0 L   |
| (renamed SB-123)   | 11/28/1997 |       | 28 TO 30 | 6.0<br>U   | 2.0 F   | ⊅<br>⊃   | 104.0        | 3.0 U   | 12.0     | 5.0       |           | 6.0 U     | 6.0 U      |            | 4.0 U  | 2.0 F      | 3.0 ∪   | 4.0 U   |
| (renamed SB-130)   | 04/28/1998 |       | 28 10 30 |            |         | 0.81     | 10 0.8F8,8FF | - 1     |          | 24.0 U    | - 1       | 6,875.0   | 0.12       | - 1        | - 1    | 275.0 D    | 12.0 U  | 18.0    |
| (renamed SB-136)   | 861/10//0  |       | 28 10 30 |            | -       | 0.4      |              | 3.0     |          | 2.0       |           | 6.0       | 6.0        | 6.0 U      | - 1    | 9.0 U      | 3.0 U   | 4.0     |
| (renamed SB-142)   | 09/07/1998 |       | 28 10 30 | 0.0        | 0.2.0   | 0.40     | 12.0 U       | 2.0     | 12.0     | 2.0       | 6.0       | 0.9       | 0.9        |            | - 1    | 8.0        | 2.0 U   | 4.0     |
| (renamed SB-185)   | 8881/11/00 | ١     | 78 10 30 |            |         | 3.0      | -1           | 2.0     |          | 0.4       | - 1       |           | 9.0        | - [        |        | 0.7        | 2.0 U   | 3.0     |
| 2  | 12/01/1007 |       | 8 TO 10  | 080        | 44.0    | 11 11 11 |              | 1       |          | 0.00      | -         |           | 1 0 80     | 0.00       |        |            |         | 170     |
| (recamed SR-129)   | 04/27/1998 |       | 8 TO 10  | 29.0       |         | 120      | 213.0        | -       | 0.000    | 23.0      | 29.0      |           | 20.00      | 2000       |        | 54.0 10    | 120     | 17.0    |
| (renamed SB-135)   | 07/01/1998 |       | 8 TO 10  | 0.9        |         | 300      | 1            | 200     |          | 50 0      |           | 0.00      | 0.62       | 60 11      |        | 0.00       | 200     | 0.00    |
| (renamed SB-141)   | 09/02/1998 |       | 8 TO 10  |            |         | 17.0 U   | 39.0 U       | 11.0    |          | 23.0 U    |           | L         | 28.0 U     |            |        | 39.0 U     | 11.0 U  | 17.0 U  |
| (renamed SB-184)   | 05/11/1999 |       | 8 TO 10  |            |         | 3.0 U    | 19.1         |         | L        | 4.0 U     |           | L         | 5.0 U      | 5.0 U      |        | 7.0 U      | 2.0 U   | 3.0     |
|  | 12/01/1997 |       | 18 TO 20 | 6.0 U      | 3.0 U   | 5.0 F    | 13.0         | 3.0 U   | L        | 5.0 U     | 0.0 U     | L         | 6.0 U      | 1          | !      | U 0.6      | 3.0 U   | 4.0 U   |
| (renamed SB-129)   | 04/27/1998 |       | 18 TO 20 |            |         | 4.0 U    | 12.0         | į.      |          | 1 5.0 U   |           |           | 6.0 U      | 0.9        | 1      | 8.0 U      | 2.0 U   | 4.0 U   |
| (renamed SB-135)   | 07/01/1998 |       | 18 TO 20 |            |         | 4.0 U    | 12.0 U       |         | 12.0     |           |           | 0.9       | 0.9        | 6.0 U      | [      | 8.0 U      | 2.0 U   | 4.0 L   |
| (renamed SB-141)   | 09/02/1998 |       | 18 TO 20 |            |         | 3.0 U    | 12.0 U       | 2.0 U   |          |           | į.        |           | 6.0 U      |            | 1      | 8.0 U      |         | 3.0 U   |
| (renamed SB-184)   | 05/11/1999 |       | 18 TO 20 |            |         | 3.0 U    | 39.4         |         | 10.0     |           |           |           | 5.0 U      |            | 1      | 7.0 U      |         | 3.0 ר   |
|  | 12/01/1997 |       | 28 TO 30 | 27.0 U     |         | 16.0 U   | 54.0         |         |          | 22.0 U    |           |           | 27.0 U     |            |        | 38.0 U     | ш       | 16.0 L  |
| (renamed SB-129)   | 04/27/1998 |       | 28 TO 30 |            |         | 3.0      | 11.0         | - 1     |          | 4.0 U     | - 1       | ĺ         | 5.0        | - 1        |        | 7.0 ∪      | - 1     | 3.0 ∟   |
| (renamed SB-135)   | 07/01/1998 | soil  | 28 TO 30 | 0.9        | 2.0 U   | 4.0 U    | 1.0 F        | 2.0 U   | J 12.0 U | 5.0 U     | 6.0 U     | 0.9       | 0.9        | 0.9<br>0.0 | D :    | 0.8        | 2:0 O   | D.4.0   |
| (renamed SB-141)   | 08/02/1990 |       | 28 TO 30 |            |         | 3.0      | 0.0          | 2.0     |          | 0.0       |           |           | 0 0        |            |        | 0.0        |         | 3.0     |
| (renamed Sp-164)   | 888171700  |       | 25 21 87 | 2.5        |         | 3.0      | Т            | 7.0     |          | 7.0       | -1        | 9.0       | 0.00       | -1         | - 1    | 0.         | 2.0     | 3.0.6   |
|  | 11/28/1997 |       | 9 TO11   |            |         | 4.0 U    | 12.0 U       | 1       |          | 4.0 U     | 1         | 6.0       | 0.9        | 6.0 U      | 1      | 0.8        | 20 0    | 4.0     |
| (renamed SB-127)   | 04/27/1998 |       | 8 TO 10  | 6.0 U      |         | 3.0 U    | 11.0 U       |         |          | 5.0 U     | 1         | 0.9       | 6.0 U      | 6.0 U      |        | 8.0 U      | 2.0 U   | 3.0     |
| (renamed SB-133)   | 07/01/1998 | soil  | 8 TO 10  | O.9        | 2.0 U   | 1 4.0 U  | 12.0 U       | 2.0 U   | U 12.0 U | 5.0 U     | 6.0 U     | 6.0       | 6.0 U      | 6.0 U      | 4.0 U  | 8.0 U      | 2.0 U   | 4.0 U   |
| (renamed SB-139  | 09/02/1998 |       | 8 TO 10  |            |         | 2.0 U    | 3.0          | - 1     |          | 5.0 U     | 1         |           | 0.9        | 6.0 U      | - 1    | 8.0 U      | 2.0 U   | 3.0 ∟   |
| (renamed SB-182)   | 11/20/1007 |       | 8 TO 10  |            |         | - 1      |              | - 1     | 0.0      | 0.4       | 9.0       | 0.0       | 2.0        |            | - 1    | - 1        | 200     | 3.0     |
| (renamed SB-127)   | 04/28/1998 |       | 18 TO 20 | 0.00       | 3.0     | 2.0      | 40           | 2 = 6   | 120      |           | 0.0       | 0.0       | 0 0        | 0.0        |        | 0.00       | 30.0    | 3.0     |
| (renamed SB-133)   | 07/01/1998 |       | 18 TO 20 | 0.9        |         | -   -    | 110          | 20      | 110      | 4.0       | 0.0       | 0.0       | 0.09       | 1          |        |            | 20 0    | 3.0     |
| (renamed SB-139)   | 09/02/1998 |       | 18 TO 20 |            | 2.0 U   | 1        | 12.0         | 2.0     | 12.0     | 5.0       | 6.0       | 9         | 0.9<br>0.9 |            |        | 1          |         | 3.0     |
| (renamed SB-182)   | 05/11/1999 |       | 8 TO 10  | 5.0 U      | 2.0 U   | Ι-       |              | 2.0     | 10.0     | 4.0       | 9.0       | 9.0       | 5.0 U      | 1          | 1      | 1          | 2.0 U   | 3.0 U   |
|  | 11/27/1997 | -     | 28 TO 30 |            |         |          | 381.0        | 3 U     | 13.0     |           | 6.0       | 0.99      | 6.0 U      |            |        | 1          |         | 4.0 U   |
| (renamed SB-127)   | 04/27/1998 |       | 28 TO 30 | 6.0 U      | 2.0 U   |          | 4.0          | 2.0     | 12.0     | 5.0       | 9.0       |           | 0.9        |            |        | 0.0<br>0.0 | 2.0 U   | 4.0 ا   |
| (renamed SB-133)   | 07/01/1998 |       | 28 10 30 |            |         | 0.4      | 15.0         | - 1     | 13.0     |           | - 1       | 0.9       | 0.0        |            | - 1    | - 1        |         | 4.0     |
| (renamed SB-182)   | 05/11/1999 |       | 28 TO 30 | 5.0        |         | 30 40    | 894.0        | 200     |          |           |           | 2.0       | 0.00       | 0.00       |        | 700        | 1       | 300     |
|  | 11/28/1997 |       | 39 TO 40 |            | 2.0 0   | 4.0 U    | 9.0 FD       | 1       | 12.0     | L         |           |           | 0.09       | 1          |        | 0.6        | 2.0 0   | 2.0     |
| MW-121   |            |       |          |            |         |          |              |         |          |           |           |           |            |            |        |            |         |         |
|  | 11/28/1997 |       | 8 TO 10  |            |         | U 0.4    | 6,609.0 DI   | ı       |          | lŀ        | 0.9       | 4,752.0 D | 9.0 U      |            |        | 117.0      | 3.0 U   | 4.0 U   |
| (renamed SB-128)   | 04/27/1998 |       | 8 TO 10  | 6.0 U      | 2.0 U   | 4.0 0    |              |         |          | 5.0 0     |           | 0.0       | 6.0 U      | 8.0 U      | 0.4    | 8.0 U      | 2.0 0   | 4.0     |
| (renamed SB-134)   | 09/02/1990 |       | 8 10 10  | 0250       | 1       | 17.0     | B 0.150,01   | 302.0   |          |           | 70.0      | 0.88.0    |            | -          | - 1    | 495.0      | 303.0   | 170.1   |
| (renamed SB-183  | 05/11/1999 |       | 8 TO 10  |            |         | 150      | 80 000 0     |         |          |           | 25.0      | 11 300 0  |            | 1730       | -1     | 499.0      | 10.01   | 15.0    |
|  | 11/28/1997 |       | 18 TO 20 |            |         | 4.0 U    | 6,790.0 DI   | 1       |          | 5.0 U     | 1         | 833.0     |            | 51.0       | 1      | 16.0       | 2.0 U   | 4.0 L   |
| (renamed S8-128)   | 04/27/1998 |       | 18 TO 20 | 0.9        |         | U 0.4    | 12.0 U       | 1       |          | 5.0 U     | 6.0 U     |           |            | 1          | 1      | U 0.8      | 2.0 U   | 4.0 L   |
| (renamed SB-134)   | 07/01/1998 | İ     | 18 TO 20 |            |         | 4.0 U    | 24.0         |         |          | 5.0 U     |           | 4.0       |            | 0.9        | - 1    | 8.0 U      | 2.0 U   | 4.0 L   |
| (renamed SB-140)   | 09/02/1998 |       | 18 TO 20 |            |         | 12.0 U   | 43.0         | - 1     |          | 23.0 U    |           |           | 29.0 U     | i          | - 1    | 41.0 U     | 12.0 U  | 17.0    |
| (renamed SB-183)   | 11/28/1007 |       | 18 TO 20 | 0.6        | 70 0    | 3.0      | 3,120.0      | -       | 1        | 0.4       | - 1       |           | 9.6        | 1          | - 1    | 0.07       | 30 0    | 3.0     |
| (renamed SB-134)   | 07/01/1998 | SO.   | 28 TO 30 | 822.0      | 3       | 493.0    | 21.630.0 B   | 329.0   | 1 1645 0 | 6580 U    | 822 0 U   | 1.380.0   | 822.0 U    | 822.0 U    | 493.0  | 1.151.0    | 329.0   | 493.0 L |
| (renamed SB-140)   | 09/02/1998 |       | 28 TO 30 | 0.0<br>0.0 | 3.0 U   | U 0.4    |              | 3.0     |          | 5.0 U     | 1         |           | 6.0 U      | 1          |        | 3.0        | 3.0 U   | 4.0 U   |
| (renamed SB-183)   | 05/11/1999 |       | 28 TO 30 |            |         | 3.0 U    | 2,030.0 E    |         | Ш        | 1 4.0 U   |           |           | 5.0 U      | 9.1        |        | 7.0 U      | 2.0 U   | 3.0 (   |

| Sample ID:       | Date       | CINDIA           |          |        | _ |         |                   |                   |         |           |                      |                      |          |         |          |         |          |         |         |
|------------------|------------|------------------|----------|--------|---|---------|-------------------|-------------------|---------|-----------|----------------------|----------------------|----------|---------|----------|---------|----------|---------|---------|
| :                | Analyzed:  | Soil or<br>Water |          | Chloro |   |         | chioro-<br>ethane | chloro-<br>ethene | propane | methane   | dichloro-<br>methane | dichioro-<br>propene |          | propene | ethane   | nexane  | ethene   | propane | methane |
| AW-122           |            |                  |          |        |   |         |                   |                   |         |           |                      |                      |          |         |          |         |          |         |         |
|                  | 12/01/1997 | soil             | 8 TO 10  | 28.0   | D | 11.0 U  | 17.0 L            | 58.0              | 11 0    | U 56.0    |                      | U 28.0 L             |          | 28.0 U  | J 28.0 U | 17.0 U  | 39.0 U   | 11.0 L  | 17.0    |
| enamed SB-125)   | 04/27/1998 | soil             | 8 TO 10  | 29.0   | Э | 12.0 U  | 18.0              | 29.0              | U 12 U  | U 59.0    | U 24.0 L             | J 29.0 L             | 9.0 FD   |         | 29.0 L   | 18.0 U  | 41:0 U   | 12.0 L  | 18.0    |
| renamed SB-131)  | 07/01/1998 | lios             | 8 TO 10  | 694.0  | ס | 278.0 U | 417.0             | 1,389.0           | U 278.0 | U 1,389.0 | U 556.0              | J 694.0 L            | 694.0    | 694.0   | 0.469    | 417.0 U | 972.0 U  | 278.0 ℃ | 417.0   |
| renamed SB-137)  | 09/01/1998 | soil             | 8 TO 10  | 29.0   | n | 12.0 U  | 17.0 L            | 58.0              | 12.0    | U 17.0    | U 23.0 U             | J 29.0 L             | 29.0     | 29.0    | ו 29.0 ר | U 0.71  | 40.0 U   | 12.0 L  | 17.0    |
| renamed SB-180)  | 05/11/1999 | soil             | 8 TO 10  | 5.0    | D | 2.0 U   | 3.0               |                   | U 2:0   | U 10.0    | U 4.0 L              | J 5.0 L              | 1. 0.5   | 5.0 (   | 5.0 (    | 3.0 U   | 7.0 U    | 2.0 ℃   | 3.0     |
|                  | 12/01/1997 | soil             | 18 TO 20 | 29.0   | Э | 12.0 U  |                   | ,                 |         | U 59.0    | U 24.0 L             | J 29.0 L             | 29.0     | 29.0    | J 29.0 U | 18 U U  | 41.0 U   | 12.0 L  | 18.0    |
| renamed SB-125)  | 04/27/1998 | soil             | 18 TO 20 | 38.0   | ס | 15.0 U  | 23.0              | 1                 | 15 U    | U 76.0    |                      | J 38.0 U             | 38.0     | Ι-      |          |         | 53.0 U   | 15.0 L  | 23.0    |
| named SB-131)    | 07/01/1998 | lios             | 18 TO 20 | 6.0    | D |         |                   | 13.0              |         | U 13.0    |                      | U 6.0 U              | 9.0      | 0.9     | U 6.0 U  | 4.0 U   | 9.0 U    | 3.0 L   | 4.0     |
| (renamed SB-137) | 09/01/1998 | soil             | 18 TO 20 | 9.0    | D | 2.0 U   | 3.0               | 12.0              | U 2.0   | U 12.0    | U 5.0 U              |                      |          |         | U 6:0 U  |         | 8.0 U    | 7.0 C   | 3.0     |
| renamed SB-180)  | 05/11/1999 | soil             | 18 TO 20 | 5.0    | D | 2.0 U   |                   | 0.7               | U 2.0   | U 10.0    | U 4.0 L              | U 5.0 U              | 5.0 (    |         | U 5.0 U  | 3.0 U   | 7.0 U    | 2.0 L   | 3.0     |
|                  | 12/01/1997 | soil             | 28 TO 30 | 6.0    | D | 3.0 U   |                   | ı                 |         | U 12.0    |                      | U 6.0 U              | 0.9      |         | U 6.0 U  |         | U 0.6    | 7 0'E   | 4.0     |
| renamed SB-125)  | 04/27/1998 | soil             | 28 TO 30 | 34.0   | ס | 14.0 U  | 20.0              | F 59.0 F          | FD 14 U | U 68.0    | U 27.0 U             | U 34.0 L             | 92.0     | 34.0 (  | 34.0 L   | 20.0 U  | 47.0 U   | 14.0 L  | 20.0    |
| enamed SB-131)   | 07/01/1998 | soil             | 28 TO 30 | 7.0    | Э | 3.0 U   | 4.0               | 13.0              | 3.0     | 13.0      | U 5.0 L              | J 7.0 L              | 7.0 (    | 7.0 (   | J 7.0 L  | 4.0 U   | U 0.6    | 3.0     | 4.0     |
| enamed SB-137)   | 09/01/1998 | soil             | 28 TO 30 | 0.9    | ס | 3.0 U   |                   | 0.4               | 3.0     | U 12.0    | U 5.0 (              | U 6.0 U              | 0.9      | 0.9     | U 6.0 U  |         | 2.0 J    | 3.0     | 4.0     |
| renamed S8-180)  | 05/11/1999 | soil             | 28 TO 30 | 9.0    | D | 2.0 U   | 3.0               | 10.0              | U 2.0   | 10.0      | U 4.0 U              | J 5.0 L              | 5.0      | 5.0 (   | J 5.0 L  | 3.0 U   | 7.0 U    | 2.0     | 3.0     |
| MW-124           |            |                  |          |        | - |         |                   |                   |         |           |                      |                      |          |         |          |         |          |         |         |
|                  | 12/01/1997 | soil             | 8 TO 10  | 29.0   | Э | 12.0 U  | 17.0              | 58.0              | U 12 U  | U 58.0    |                      | U 29.0 L             | 29.0     | 29.0    | 1 25.0 U |         | 41.0 U   | 12.0 L  | 17.0    |
| renamed SB-126)  | 04/27/1998 | soil             | 8 TO 10  | 29.0   | Э | 12.0 U  |                   | 58.0              | U 12 U  | U 58.0    | U 23.0 U             | J 29.0 L             | 29.0     | 29.0    | J 29.0 U |         | 40.0 U   | 12.0 L  | 17.0    |
| renamed SB-132)  | 07/01/1998 | soil             | 8 TO 10  | 31.0   | n | 12.0 U  | 18.0              |                   | FD 12.0 | U 61.0    |                      | U 31.0 L             | 31.0 (   | 31.0    | 31.0 U   |         | 43.0 U   | 12.0 L  | 18.0    |
| (renamed S8-138) | 09/01/1998 | soil             | 8 TO 10  | 0.9    | ס |         | 4.0               | 12.0              | U 2.0   | U 12.0    |                      | U 6.0 L              | 9.0      | - 1     | U 2.0 U  |         | 9:0<br>O | 2.0 L   | 4.0     |
| renamed SB-181   | 05/11/1999 | SOH              | 8 TO 10  | 5.0    | Э | 2.0 U   | 3.0               | 0.7               | U 2.0   | U 10.0    | U 4.0                | U 5.0 L              | 9.0      |         |          | 3.0 U   | 7.0 U    | .2.0 L  | 3.0     |
|                  | 12/01/1997 | soil             | 18 TO 20 | 9.0    | n | 2.0 U   | 4.0               | 12.0              | U 2 U   | U 12.0    |                      | U 6.0 U              | 0.9      | 0.9     |          |         | 8.0 U    | 2.0 L   | 4.0     |
| renamed SB-126)  | 04/27/1998 | soil             | 18 TO 20 | 0.9    | ס | 2.0 U   | 3.0               | 12.0              | U 2 U   | 12.0      |                      | U 6.0 U              | 9.0      |         |          | 3.0 U   | 8.0 U    | 2.0 L   | 3.0     |
| named SB-132)    | 07/01/1998 | soil             | 18 TO 20 | 6.0    | n | 2.0 U   |                   | 1.0               | F 2.0   | U 12.0    |                      | U 6.0 L              | 9.0      | -       | U 6.0 U  | 4.0 U   | 8.0 U    | 2.0 U   |         |
| (renamed SB-138) | 09/01/1998 | soil             | 18 TO 20 | 0.9    | Þ | 2.0 U   |                   | 11.0              | U 2.0   | 11.0      |                      | U 6.0 L              | 9.0      |         | 0.9      |         | 9.0<br>U | 2.0 U   |         |
| renamed SB-181)  | 05/11/1999 | soil             | 18 TO 20 | 5.0    | Þ | 2.0 U   |                   | 10.0              | U 2.0   | 10.0      |                      | U 5.0 L              | 5.0 (    | _       |          |         | 7.0 U    | 2.0 L   | 3.0     |
|                  | 12/01/1997 | soil             | 28 TO 30 | 29.0   | D | 12.0 U  | 17.0              | 0.85              | U 12 U  | U 58.0    | U 23.0 L             | J 29.0 L             | 62.0     | 29.0    | J 29.0 U | 17.0 U  | 41.0 U   | 12.0 L  | 17.0    |
| renamed SB-126)  | 04/27/1998 | soil             | 28 TO 30 | 28.0   | ס | 11.0 U  |                   | 0.75              | U 11 U  | U 57.0    | U 23.0 L             | J 28.0 L             | 28.0     | 28.0    |          |         | 40.0 U   | 11.0 L  | 17.0    |
| renamed SB-132)  | 07/01/1998 | soil             | 28 TO 30 | 0.9    | D | 3.0 U   | 4.0               | 3.0               | 3.0     | U 13.0    | U 5.0 U              | J 6.0 L              | 0.9      | 0.9     |          |         | 9.0<br>C | 3.0     | 4.0     |
| renamed SB-138)  | 09/01/1998 | soil             | 28 TO 30 | 0.9    | n | 3.0 U   | 4.0 t             | 97.0              | 3.0     | U 13.0    |                      | U 6.0 L              | 9.0      | 0.9     |          |         | O.6      | 3.0 (   | 4.0     |
| renamed SB-181)  | 05/11/1999 | soil             | 28 TO 30 | 9.0    | ņ | 2.0 U   | 3.0               | 10.0              | U 2.0   | U 10.0    | U 4.0 (              | U 5.0 L              | 9.0      | 9.0 (   | 5.0 U    | 3.0 U   | 7.0 U    | 2.0 L   | 3.0     |
| SB-118           |            |                  |          |        |   |         |                   |                   |         |           |                      |                      |          |         |          |         |          |         |         |
|                  | 11/28/1997 | soil             | 8 TO 10  | 0.9    | n | 4.0     | 4.0               | 63.0              |         | U 12.0    | ∪ 45.0               | 6.0                  | 733.0 FD |         | 1 22.0   | 4.0 U   | 20.0     | 3.0 L   | 4.0     |
|                  | 11/28/1997 | soil             | 18 TO 20 | 29.0   | ח | 12.0 U  | 17.0              |                   | FD 12 U | U 58.0    | U 23.0 L             | U 29.0 L             | 29.0     | 7 59 €  | J 280 L  | 17.0 U  | 41.0 U   | 12.0 L  | 17.0    |
|                  |            |                  |          |        |   |         |                   | ١                 |         |           |                      |                      |          |         |          |         |          |         |         |

Notes:

Unite analyte was analyzed for but not detected. The associated numeric value is at or below the MDL.
Unite analyte was analyzed for but not detected. The associated numeric value is at or below the MDL.
D. The compound vas found in an analysis at at a secondary distulbunitation.
F. The analyte was positively identified but the associated numerical value is below the reporting limit.
E. Commentations exceeded the calisation in angle of the instrument.
F. The analyte was bould in the associate blank, as well as in the sample.
In value was obtained from a 1750 of diution.

Late was obtained from a 1750 of diution.

Late was obtained from a 1700 of diution.

Late was obtained from a 1700 of diution.

Late was obtained from a 1700 of diution.

NA - The analyte was not analyzed for this compound.

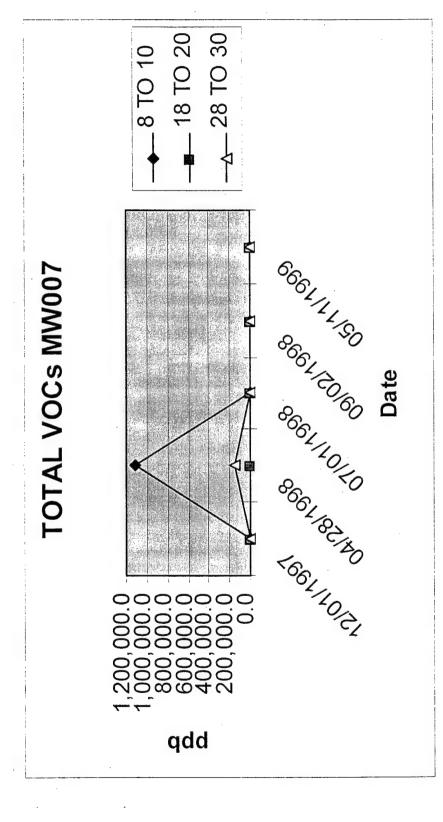
| Column   C | Sample ID:    | Date<br>Analyzed:                       | Matrix<br>Soil or<br>Water | Depth    | 1,2-Di-<br>bromo-<br>ethane | Chloro-<br>benzene | 1,1,1,2-Tetra<br>chloro<br>ethane | Ethyl-<br>benzene | m,p-xylene   | o-xylene     | Styrene | Bromoform | Isopropyl-<br>benzene | Bromo-<br>benzene  | 1,1,2,2-<br>Tetrachloro | 1,2,3-Tri<br>chloro<br>propane | N-propyl-<br>benzene | 2-Chloro-<br>toluene |
|--|---------------|---|----------------------------|----------|-----------------------------|--------------------|-----------------------------------|-------------------|--------------|--------------|---------|-----------|-----------------------|--------------------|-------------------------|--------------------------------|----------------------|----------------------|
| Continues   Cont | W-007         |   |                            |          |                             |                    |                                   |                   |              |              |         |           |                       |                    |                         |                                |                      |                      |
| Continue    named SB-123) | 12/01/1997                              | soil                       | 8 TO 10  | 1                           | 11.0               |                                   | U 0.71            | 40 U         | 28.0 U       | 11.0 U  |           | 46                    | 11.0 U             |                         | 114.0                          |                      | 11.0                 |
| Column   | amed SB-130)  | 04/28/1998                              | soil                       | 8 TO 10  | IJ                          | 249.0              |                                   | 4,185.0 FD        | 21,376.0 D   | 11,433.0 FD. |         | 1         | 713.0                 | 11.0 U             |                         |                                | 9,129.0 D            | 11.0                 |
| Continue    amed SB-136)  | 07/01/1998                              | soil                       | 8 TO 10  | - 1                         | 2.0                | 3.0                               | 3.0 U             | 9.0 U        | 0.9          |         |           | 0.6                   | 2.0 U              | 1                       | 23.0                           |                      | 2.0                  |
| Continuence    | amed SB-142)  | 09/02/1998                              | Soil                       | 8 TO 10  |                             | 3.0                | 4.0                               | 4.0 U             | D 0.6        | 0.9          |         | ŧ         | 10.0                  | 3.0                |                         | 25.0                           | - 1                  | 3.0                  |
| Continue    amed S8-185)  | 05/11/1999                              | Soil                       | 8 tO 10  | 3.0                         | 2.0                | 3.0                               | 3.0               | 7.0 U        | 9.0 U        | - 1     | - I       | 8.0                   | 2.0 U              | - }                     | 20.0                           | - 1                  | 2.0                  |
| Continue    amed S8-123)  | 12/01/1997                              | soil                       | 18 TO 20 | 3.0                         | 2.0                | 3.0                               | 3.0               | 4.0 F        | 2.0 F        |         |           | 9.0                   | 2.0 U              | - 1                     | 23.0                           |                      | 2.0                  |
| Continue   | amed SB-130)  | 04/28/1998                              | Soil                       | 18 TO 20 | 4.0                         | 3.0                | 4.0                               |                   | 999          | 35.0         | - 1     | - 1       | 6.0                   | 3.0                | - 1                     | 25.0                           | - 1                  | 3.0                  |
| Continue    amed SB-136)  | 07/01/1998                              | soil                       | 18 TO 20 | 4.0                         | 2.0                | 4.0                               |                   | 8.0 U        | 0.0<br>0.0   |         |           | 9.0                   | 2.0 U <sub>1</sub> |                         | 23.0                           |                      | 2.0                  |
| The contribution   The contrib | amed SB-142)  | 09/02/1998                              | soil                       | 18 TO 20 | 3.0                         | 2.0                | 3.0                               |                   | 8.0 U        | O.9          |         | 1         | 9.0                   | 2.0 Ui             |                         | 23.0                           |                      | 2.0                  |
|  | med SB-185)   | 05/11/1999                              | soil                       | 18 TO 20 | 3.0                         | 2.0                | 3.0                               |                   | 0.7<br>U 0.7 | 9:0 O        |         | 1         | 8.0                   | 2.0 U              | !                       | 20.0                           |                      | 2.0                  |
| No.  | med SB-123)   | 11/28/1997                              | soil                       | 28 TO 30 | 4.0                         | L                  |                                   |                   | 6.0 F        | 3.0 F        |         | 1         | 3.0                   | 3.0 U              | l                       | 25.0                           | 1                    | 3.0                  |
| The contribution   Section   Secti | med SB-130)   | 04/28/1998                              | soil                       | 28 TO 30 | ļ.                          | 12.0               | 18.0                              |                   | 2.706.0 FD   | G 0.609      | 1       | 1         | 141.0                 | 12.0 U             |                         | 122.0                          | 274.0 U              | 12.0                 |
| Mathematical Section   Mathematical Section | med SR-136)   | 07/01/1998                              | Soil                       | 28 TO 30 |                             | 3.0                | 4.0                               |                   | 000          | 200          |         | 1         | 10.0                  | 0.6                | 1                       | 25.0                           | 1                    | 0.6                  |
| Continuence    | CB-443)       | 00/02/1908                              | 100                        | 28 TO 30 | 1                           | 000                | 2                                 | l                 | 2 2          | 0.0          |         | 1         |                       | 000                | ļ                       | 24.0                           | 1                    | 000                  |
| Continue    (74) -00 pall | 06/11/1000                              | 5                          | 20 00 00 | - 1                         | 0 0                | 0 0                               |                   | 0.00         | 0.00         |         | -         |                       | 0.00               |                         | 7.0                            | -1                   | 0.0                  |
| Continue    Ted 58-185)   | 8881711700                              | 200                        | 20 10 30 | - 1                         | 2.0                | 3.0                               | 1                 | 0 0.7        | 2.0          | -1      | - 1       |                       | Z.0 U              | - 1                     | 20.0                           | - 1                  | Z.0                  |
| Continue    611           |   |                            |          | - 1                         |                    |                                   |                   |              |              |         | - 1       |                       |                    | - 1                     |                                | - 1                  |                      |
| Continue                  | 12/01/1997                              | soil                       | 8 TO 10  |                             | 11.0 U             | 11.0                              | 148.0 D           | D 262        | 578.0 D      | 11.0 U  | - 1       |                       | 11.0 U             |                         | 112.0                          |                      | 11.0                 |
| District    ned SB-129)   | 04/27/1998                              | soil                       | 8 TO 10  | 17.0 U                      | 84.0 D             |                                   | 220.0 D           | 2,175.0      | 927.0 D      | 12.0 U  |           |                       | 12.0 U             |                         | 115.0                          |                      | 12.0                 |
| Descriptions   Description   | ned SB-135)   | 07/01/1998                              | soil                       | 8 TO 10  | -                           |                    |                                   | 3.0 U             | 8.0 U        | 0.9<br>U     | 2.0 U   |           |                       | 2.0 U              |                         | 23.0                           | 1                    | 2.0                  |
| 1,00,11,1989  Seel   8   10,10   3   0   1,14   3   0   1,14    | ned SB-141)   | 09/02/1998                              | soil                       | 8 TO 10  |                             | Ĺ                  |                                   | U 0.71            | 11.0 J       | f 0.6        | 11.0 U  |           |                       | 11.0 U             | 1                       | 112.0                          |                      | 11.0                 |
| Continues   Cont | and SR-184)   | 05/11/1999                              | lios                       | 8 TO 10  | 3.0                         | 13.4               | ŀ                                 | 13.7              | 93.5         | 52.0         | 20 11   | 1         |                       | 2.0                | 1                       | 20.0                           | 1                    | 24.8                 |
| Continger   Cont |               | 12/01/1997                              | ios                        | 18 TO 20 | 40 11                       | 30 11              | 1                                 | 40 11             |              |              | 1       | 1         |                       | 300                | 1                       | 1                              | 1                    | 0                    |
| Continue    (DC 130)      | 04/27/1008                              | 3                          | 18 TO 20 |                             |                    | 1                                 | 0 =               | 0 5          | 0.0          | 1       | - 1       |                       | 000                | İ                       |                                |                      | 9 6                  |
| CHANTINGS   STATE    | 90,000        | 07/01/1008                              | lios                       | 18 TO 20 |                             |                    | 1                                 | 2                 | 0 =          | 0.00         |         |           |                       | 200                |                         | 2                              |                      | 2 6                  |
| Continues   Cont | (CC) -GC Dal  | 000000000000000000000000000000000000000 | 000                        | 10 70 70 | 9                           |                    | - 1                               | 0.0               | 0 0          | 0.00         | 1       | - 3       |                       | 2.00               |                         | 24.0                           | - 1                  | 2.0                  |
| Continues   Section   Continues   Section   Continues   Section   Continues   Section   Continues   Section   Continues   Section   Continues   Section   Continues   Section   Continues   Section   Continues   Section   Continues   Section   Section   Continues   Section   Section   Continues   Section   Section   Continues   Section   Sectio | 180 CG-141)   | 08/07/1880                              | 200                        | 10 10 20 | 000                         |                    |                                   | 3.0               | 0.0          | 0.0          |         |           |                       | 2.0 0              | ı                       | 23.0                           |                      | 2.0                  |
| Decinity   See   | ed 35-164)    | 1000111000                              | 5                          | 10 10 20 | 000                         |                    | - 1                               | 0.00              | 0.           | 0.00         | -1      | - 1       |                       | 2.0 0              | - 1                     | 20.0                           | 2.0 0                | 2.0                  |
| Mark/17898   Soil 28 10 30   3.0 0   2.0 0   4.0 0   |               | 7861/10/71                              | Soll                       | 28 10 30 | 10.0                        |                    |                                   | 0.91              | 38 0         | 27.0 U       | - 1     |           |                       | U 0.11             |                         | 108.0                          |                      | 11.0                 |
| Confidentiaries   Seal   Sea   Confidentiaries   Sea   Sea   Sea   Confidentiaries   Sea   Sea   Confidentiaries   Sea   Sea   Confidentiaries   Sea   Sea   Sea   Confidentiaries   Sea   Sea   Sea   Confidentiaries   Sea   Sea   Sea   Confidentiaries   Sea   ed SB-129)    | 04/27/1998                              | Soil                       | 28 10 30 | 3.0                         |                    |                                   | 3.0               | 7.0 U        | 9.0 U        | - 1     |           | İ                     | 2.0 U              |                         | 21.0                           |                      | 2.0                  |
| March 1988   Seel   STO   ST | ed SB-135)    | 07/01/1998                              | SOI                        | 28 TO 30 | 4.0                         |                    |                                   | U 0.4             | 8.0 U        | 0.9          | - 1     |           |                       | 2.0 U              |                         |                                | - 1                  | 2.0                  |
| Machine   Mach | led SB-141)   | 09/02/1998                              | Soil                       | 28 10 30 | 3.0                         |                    |                                   | 3.0 U             | J 0.7        | 9.0 U        | 1       | - 1       |                       | 2.0 U              |                         | 21.0                           | - [                  | 2.0                  |
| 11/28/1998   501   51/011   40 U   20 U   40 U   40 U   40 U   50 U    | led SB-184)   | 05/11/1999                              | soil                       | 28 TO 30 | 3.0                         |                    |                                   | 4.3               | 7.0 U        | 5.0 U        | - 1     |           |                       | 2.0 U              | 4.3                     |                                | 4.5                  | 2.0                  |
| March   Marc | 120           |   |                            |          |                             |                    |                                   |                   |              |              |         |           |                       |                    |                         |                                |                      |                      |
| March   Marc |               | 11/28/1997                              | soil                       | 9 TO11   | 4.0 U                       | 2.0 U              | 4.0 U                             | 4.0 U             | 8:0 U        | 9.0 U        | 2.0 U   |           |                       | 2.0 U              |                         | 23.0                           | - 1                  | 2.0                  |
| Characteristics   State   Characteristics  | sed SB-127)   | 04/27/1998                              | soil                       | 8 TO 10  |                             | Ì                  | 3.0 U                             | 3.0               |              | 0.9          | 2.0 U   | - 1       |                       | 2.0 U              | - 1                     | 23.0                           |                      | 2.0                  |
| March   Marc | ed S8-133)    | 07/01/1998                              | SOI                        | 8 TO 10  | - 1                         |                    | 4.0 U                             | 4.0 U             |              | 0.9          | 2.0 U   |           |                       | 2.0 U              | - 1                     | 23.0                           | - 1                  | 2.0                  |
| 11/28/1995   Soil 1870-10   Soil 1970-10   Soil 1 | ned SB-139)   | 09/02/1998                              | SOI                        | 8 TO 10  |                             |                    | 3.0                               | 3.0               |              | 0.9          | 2.0 U   | - 1       |                       | 2.0 U              | . !                     | 23.0                           |                      | 2.0                  |
| 11/22/1995   Soil 18170   Soil 2 0   Soil 0    | 1ed S8-182)   | 05/11/1999                              | soil                       | 8 TO 10  |                             |                    | - 1                               | 3.0 U             |              | 5.0 U        | 2.0 U   |           |                       | 2.0 U              |                         | 20.0                           |                      | 2.0                  |
| March   Marc |               | 11/28/1997                              | П                          | 18 TO 19 | 3.0                         |                    | - 1                               | 3.0               |              | 0.9          |         |           |                       | 2.0 U              |                         | 23.0                           |                      | 2.0                  |
| Main Continue   Main Continu | red SB-127)   | 04/28/1998                              |                            | 18 TO 20 |                             | 3.0 U              |                                   | 4.0 U             |              | 0.9          |         |           |                       | 3.0 U              |                         | 25.0                           |                      | 3.0                  |
| Confirmation   Conf | ned SB-133)   | 07/01/1998                              |                            | 18 TO 20 | 3.0                         | 2.0                | 3.0                               | 3.0 U             |              | 0.9          |         | ı         | 9.0                   | 2.0 U              |                         | 22.0                           |                      | 2.0                  |
| Titizeries   Soi   170   Soi   ned SB-139}   | 09/02/1998                              |                            | 18 TO 20 | 3.0                         | 2.0                | 3.0                               | 3.0               |              | 0.9          |         |           | 9.0                   | 2.0 U              | ì                       | 23.0 U                         | 2.0 U                | 2.0                  |
| 11/28/1995   Soil 22   TO 20   4.0 | led SB-182)   | 05/11/1999                              |                            | 18 TO 20 | 3.0                         | 2.0                | 3.0                               | 3.0               |              | 5.0 U        |         | 1         | 8.0                   | 2.0 U              |                         | 20.0                           | 1                    | 2.0                  |
| Configuration   Configuratio |               | 11/27/1997                              | Г                          | 28 TO 30 | 4.0                         | 3.0                | 4.0                               | 4.0               |              | 13.0         |         | 1         | 10.0                  | 3.0 U              | 1                       | 25.0                           | 1                    | 3.0                  |
| Titizeri99  Soil 28TO 30   4.0   4 | ad SB-127)    | 04/27/1998                              | Γ                          | 28 TO 30 | 4 0                         |                    | 1                                 | 40                |              | 1 09         |         |           | 10.0                  | 20 11              | !                       | 24.0                           |                      | 00                   |
| Table   State   Stat | 38-133)       | 07/01/1998                              | Т                          | 28 TO 30 | 4.0                         |                    |                                   | 0.4               |              | 0.00         |         |           | 10.0                  | 200                | 1                       | 25.0                           |                      | 0 0                  |
| 11/22/1995   Sail 28170 30   Sail 28   Sail  | ad SB-130)    | 09/02/1998                              | Ī                          | 28 TO 30 | 40                          |                    | 1                                 | 2 0 0             |              | 200          | -       |           | 000                   | 200                |                         | 25.0                           |                      | 200                  |
| 11/28/1997   Seri   STO-10   4.0   1   4.0   | Ded SB-182)   | 05/11/1999                              | 1                          | 28 TO 30 | 0.6                         |                    |                                   | 0.5               |              | 0 2          | 1       |           |                       | 000                | -                       | 20.00                          | 1                    | 000                  |
| 11/22/1995   Soil 8/10-10   4/10   4/20    | (10, 00)      | 11/28/1997                              | Τ                          | 39 TO 40 | 4.0                         |                    | 1                                 | 0.00              |              | 0.00         | 1       | 1         |                       | 000                | 1                       | 0.02                           | 1                    | 000                  |
| 11/28/1997   Scil 8   70   10   4.0   1   44.0   45.0   4.0   1   45.0   4.0   1   45.0   4.0   1   47.0   1 | 121           |   | Τ                          |          |                             |                    |                                   |                   |              | 2            | 2       |           | l                     |                    |                         |                                |                      | 2                    |
| OHZ7/1998         Soil         8 TO 10         4.0   |               | 11/28/1997                              | ig                         | 8 TO 10  |                             |                    | 40 13                             | 192.0             | 1 7010 0     | 2 0440       | 11 08   |           |                       | 3.0 11             | 447.0                   | -1                             |                      |                      |
| Transfer  | 100           | 8001/20/70                              | lice                       | OF OF 8  | 1                           |                    |                                   |                   | 2 - 0        | 2 2 2        | 0 0     | 1         |                       |                    | 1                       | 200                            |                      |                      |
| Delignizer   Secondary   Delignizer   Deli | Hed 30-120)   | 07/04/4008                              | 100                        | 200      |                             | 305.0              |                                   | 0440              | 7 7 60 0     | 2 480 0      | 25.00   |           | 1                     | 206                | - !                     |                                |                      | 1                    |
| Continue  | 20 140)       | 00/02/1008                              | 3                          | 8 TO 10  |                             | 1000               |                                   | 17.0              | 4000         | 4,400.0      | 2000    | - 1       | 1                     | 2000               | 1                       | 0,045                          | 400                  | 1000                 |
| Tight register   Self   Fig 2  | med 35-140)   | 09/02/1990                              | lios                       | 2 2      | 16.0                        | 12.0               | 0.7.                              | 0.00              | 0.00         | 0.000        | 12.0    |           | 1                     | 0.20               | - !                     |                                | 10.0                 | 0.71                 |
| Configerable   Conf | med 58-163)   | 4470014007                              | 100                        | 10.00    | 13:0                        |                    | - }                               | 0.400             | 3,310.0      | 1,360.0      | - 1     |           | 1                     | 0.00               | - 1                     | 233.0                          | 700.0                | 0.172                |
| Triggraps   Solid   18TO 20   4.0   1.0  | 100 100       | 04/27/4009                              | lios                       | 200      | 9                           |                    |                                   | 0.62              | 0.07         | 0.00         | - 1     | -1        |                       | 200                | - 1                     | 7 000                          | 20.00                | 2.0                  |
| Colorariage   Soil   18   Coloraria   Co | med 58-128)   | 04/2//1990                              | 200                        | 07 O T O | 0.4                         |                    |                                   | 0.4               | 0.8          | 0.9          | - 1     | - 1       |                       | 2.0 0              | - 1                     | 23.0                           | 2.0                  | 2.0                  |
| 1728/1998   Soil   1810 20   40 U   2.0 U   4.0 U    | med 58-134)   | 000000000000000000000000000000000000000 | los los                    | 10.20    | 7 4.0                       |                    | - 1                               | 0.0               | 0.00         | 4.0          | - 1     |           |                       | 0.02               | . !                     |                                | 2.0                  | 0.7                  |
| 11/28/1995   Soil   1287   S | red 30-140)   | 09/07/1990                              | 100                        | 10 TO 20 | 2 6                         | 1                  |                                   | 200               | 0.0          | 23.0         | - 1     | -1        |                       | 0.00               | - 5                     | 0.00                           | 72.0                 | 0.40                 |
| 170  | ned 55-163)   | 447004007                               | ilos<br>iies               | 10 10 20 | 3.0                         | 1                  |                                   | 14.0              | 7.47         | 5.67         | - 1     | - 1       |                       | 7.00               | - 1                     | $\perp$                        | 2.0                  | 0 0                  |
| 090721998 341 26 70 30 43 0 1 30 0 44 0 7 7 39 0 190 0 30 0 10 0 10 0 0 30 0 30 0 3  | 100 total     | 07/01/1008                              | 100                        | 28 TO 30 | 4.0                         |                    | 7 0 0                             | 474.0             | 4 024 0      | 23.0         | - 1     |           | `                     | 0.000              |                         | 2 2000                         | 422.0                | 0.00                 |
| 30 U 30 U 30 U 30 U 30 U 30 U 30 U 30 U  | med 58-134)   | 07/01/1990                              | 100                        | 26 70 30 | 193.0                       |                    | 0.00                              | 0.47              | 7 0.150,1    | 10.684       |         | - (       |                       | 329.0              | - [                     | _                              | 455.0                | 329.0                |
| 11 00 11 00 11 00 11 00 11 00 11 00 11 00 11 00 11 00 11 00 11 00 11 00 11 00 11 00 11 00 11 00 11 00 11 00 11   | red 50-140)   | 09/07/1990                              | 200                        | 20 10 30 | 2 0                         |                    | 2 0                               | 0.7               | 0.60         | 19.0         | 0.00    | - 1       |                       | 0.0                | - !                     | $\perp$                        | 2.0                  | 0.0                  |
|  |               |   |                            |          |                             |                    |                                   |                   |              |              |         |           |                       |                    |                         |                                |                      |                      |

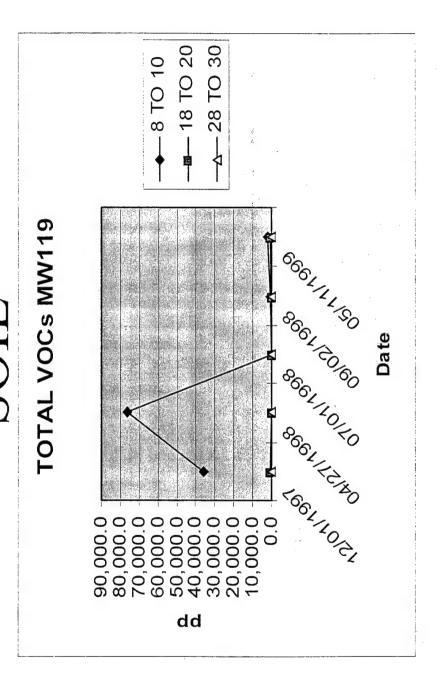
|  | Analyzed.   |  |   | Chicago   | hanzana                     | Carrier  |  |         |         |       |           |             |         |         |           |         |         |
|--|---|--|---|---|-----------------------------|--|--|---------|---------|-------|-----------|-------------|---------|---------|-----------|---------|---------|
|  |   | Water  |   | ethane  |                             | ethane   | TO THE PARTY OF TH |         |         |       |           | 91156119    | penzene | ethane  | propane   | Denzene | toluene |
| WW-122   |   |  |   |   |                             |  |  |         |         |       |           |             |         |         |           |         |         |
|  | 12/01/1997  |  | 8 TO 10   | 17.0 U  | 11.0                        |  | U 0.71   |         | 28.0    |       | 34.0      | J 45 U      |         | 11.0 Ui | 112.0 U   | 11.0 U  | 11.0    |
| renamed SB-125)                                      | 04/27/1998  | soil   | 8 TO 10   | 18.0 U  | 73.0 D                      |  | 18.0 U   | 24.0 FD | 19.0 FD |       | J 35.0 L  | J 7.0 FD    |         | 12.0 U  | 118.0 U   | 17.0 D  | 12.0 U  |
| renamed SB-131)                                      | 07/01/1998  | - [  | 8 TO 10   | 417.0 U   | 278.0                       |  | 417.0 U  | 972.0 U | 694.0   | 278.0 | J 833.0 L | J 1,111.0 U |         | 278.0 U | 2,778.0 U | 278.0 U | 278.0 L |
| (renamed SB-137)                                     | 09/01/1998  | ı  | 8 TO 10   | 17.0 U  | 12.0                        |  | 17.0 U   | 40.0 U  | 7 29.0  | 12.0  | J 35.0 L  | J 46.0 U    |         | 12.0 U  | 115.0 U   | 12.0 U  | 12.0 U  |
| (renamed SB-180)                                     | 05/11/1999  | soil   | 8 TO 10   | 3.0 ∪   | 2.0 U                       |  | 3.0 U  | 7.0 U   | 5.0 (   | 2.0   |           | J 8.0 U     |         | 2.0 U   | 20.0 U    | 2.0 U   | 2.0 €   |
|  | 12/01/1997  | soil   | 18 TO 20  | 18.0 U  | 12.0                        |  | 18.0 U   | 13      | 7.0 FD  | 12.0  |           | J 47 U      |         | 12.0 U  | 118.0 U   | 12.0 U  | 12.0 U  |
| renamed SB-125)                                      | 04/27/1998  | soil   | 18 TO 20  | 23.0 U  | 15.0                        |  | 23.0 U   | 93.0 U  | 38.0    | 15.0  |           | J 61.0 U    |         | 15.0 U  | 152.0 U   | 15.0 U  | 15.0 U  |
| renamed SB-131)                                      | 07/01/1998  | soil   | 18 TO 20  | 4.0 U   | 3.0                         |  | 4.0 U  | D 0.6   | 0.9     | 3.0   |           | U 0.01      |         | 3.0 U   | 25.0 U    | 3.0 U   | 3.0     |
| (renamed SB-137)                                     | 09/01/1998  | soil   | 18 TO 20  | 3.0 U   | 2.0                         |  | 3.0  | 8.0 U   | 0.9     | 2.0   |           | 0.6         |         | 2.0 U   | 23.0 U    | 2.0 U   | 2.0 U   |
| renamed SB-180)                                      | 05/11/1999  | soil   | 18 TO 20  | 3.0 U   |                             | 3.0 U  | 3.0  | U 0.7   | 5.0     | 2.0   | U 6.0 L   | U 8.0 U     |         | 2.0 U   | 20.0 U    | 2.0 U   | 2.0 U   |
|  | 12/01/1997  | soil   | 28 TO 30  | 4.0 U   | 3.0                         |  | 4.0 U  | 0.6     |         | 3.0   |           | J 10:0 U    |         | 3.0 U   | 25.0 U    | 3.0 U   | 3.0     |
| (renamed SB-125)                                     | 04/27/1998  | soil   | 28 TO 30  | 20.0 U  |                             | 20.0 U   | 13.0 FD  | 63.0 D  | 38.0 D  | 14.0  | J 41.0 U  | 14.0 FD     | 14.0 U  | 14.0 U  | 135.0 U   | 27.0 D  | 14.0    |
| (renamed SB-131)                                     | 07/01/1998  | soit   | 28 TO 30  | 4.0 U   | 0                           |  | 4.0 U  | 9.0 U   | 7.0 L   | 3.0   | J 8.0 L   | 11.0 U      |         | 3.0     | 26.0 U    | 2.0 F   | 3.0 U   |
| (renamed SB-137)                                     | 09/01/1998  | soil   | 28 TO 30  | 4.0 U   |                             |  | 4.0 U  | 9.0 U   | 9.0     | 3.0   | J 8.0 L   | U 0.01      |         | 3.0 U   | 25.0 U    | 3.0 ∪   | 3.0 U   |
| named SB-180)  | 05/11/1999  | soil   | 28 TO 30  | 3.0 U   | 2.0                         |  | 3.0 U  | U 0.7   | 2.0 1   | 2.0   | J 6.0 L   | U 8.0 U     | 2.0 U   | 2.0 U   | 20.0 U    | 2.0 U   | 2.0 U   |
| MW-124   |   |  |   |   |                             |  |  |         |         |       |           |             |         |         |           |         |         |
|  | 12/01/1997  | soil   | 8 TO 10   | - 1   | 12.0                        | 17.0 U   | U 0.71   | 41 U    | າ 0.62  |       | J 35.0 L  | I 47 U      | 12.0 U  | 12.0 U  | 116.0 U   | 12.0 U  | 12.0 U  |
| renamed SB-126)                                      | 04/27/1998  |  | 8 TO 10   | - 1   | 12.0 U                      |  | 17.0 U   | 40.0 U  | 29.0 U  | 12.0  | J 35.0 U  | J 46.0 U    | 12.0 U  | 12.0 U  | 115.0 U   | 12.0 U  | 12.0 U  |
| renamed SB-132)                                      | 07/01/1998  |  | 8 TO 10   | - 1   | 12.0                        |  | 18.0 U   | 43.0 U  | 31.0 L  |       | J 37.0 L  | 49.0 U      | 12.0 U  | 12.0 U  | 122.0 U   | 12.0 U  | 12.0 U  |
| renamed SB-138)                                      | 09/01/1998  | SOI  | 8 TO 10   | 4.0   | 2.0                         |  | 4.0 U  | 8.0 U   | 6.0     |       | J 7.0 L   | 0.6 U       | 2.0 U   |         | 24.0 U    | 2.0 U   | 2.0 U   |
| renamed SB-181)                                      | 05/11/1999  | SOI  | 8 10 10   | - 1   | 2.0                         |  | 3.0 U  | 7.0 U   | 5.0 L   | 2.0   |           | 8.0         | 2.0 U   | - 1     | 20.0 U    | 2.0 U   | 2.0 U   |
|  | 12/01/1997  | Soil   | 18 TO 20  | - 1   | 2.0                         | 0.4  | 4.0 U  | 8.0 U   | 9.0 L   |       |           | U 0.6       | 2.0 U   | 2.0 U   | 23.0 U    | 2.0 U   | 2.0 U   |
| renamed SB-125)                                      | 04/2//1998  | SOI  | 02 03 81  | 3.0   | 2.0                         |  | 3.0 U  | 8.0 U   | 9.0     |       |           | 9.0         | 2.0 ∪   |         | - 1       | 2.0 U   | 2.0 ∪   |
| renamed SB-132)                                      | 07/01/1998  | SOIL   | 18 10 20  | - 1   | 2.0                         |  | 4.0 U  | 8.0 U   | 9.0     | 2.0   |           | 0.6         | 2.0 U   | - 1     |           | 2.0 U   | 2.0 ∪   |
| renamed SB-138)                                      | 09/01/1998  | SOIL   | 18 TO 20  | 3.0 U   | 2.0                         |  | 3.0  | 8.0 U   | 9.0     | 2.0   |           | O.6         | 2.0 U   |         | 23.0 U    | 2.0 U   | 2.0 U   |
| renamed SB-181)                                      | 05/11/1889  | SOI  | 18 10 20  | - 1   | 2.0                         |  | 3.0 U  | O 0.7   | 5.0 L   |       |           | 9.0<br>C    | 2.0 U   | - 1     | - 1       | 2.0 U   | 2.0 U   |
|  | 12/01/1997  | Soll   | 28 10 30  |   | 84.0                        |  | 29.0   | 36.0 FD | 19.0 FD |       | J 35.0 L  | 47 U        | 12.0 U  |         | 116.0 U   | 12.0 U  | 12 U U  |
| renamed SB-126)                                      | 04/2//1998  | SOIL   | 28 10 30  | 0.7   | 0.1.0                       | 0.77   | 17.0 U   | 40.0 N  | 28.0 L  | 11.0  | 34.0 L    | J 46.0 U    | 11.0    | - 1     | 114.0 U   | 11.0 U  | 11.0    |
| renamed SB-132)                                      | 0881/10/00  | T  | 20 10 30  | 0.4   | 3.0                         |  | 0.4  | 9.0     | 9.0     | 3.0   |           | 10.0        | 3.0     |         | 26.0 U    | 3.0 U   | 3.0     |
| renamed SB-138)                                      | 08/01/18/8  | SOIL   | 28 10 30  | 0.4   | 1                           |  | 4.0 U  | 9.0     | 9.0     | 3.0   |           | 10.0        | 3.0 U   | 3.0 U   | 25.0 U    | 3.0 U   | 3.0 ∪   |
| (renamed SB-181)                                     | 8881/11/00  | T  | 28 10 30  | 3.0   | 4.4                         | 3.0 0  | 3.0 U  | 7.0 U   | 5.0 U   | 2.0   | 9.0 (     | 8.0 U       | 2:0 ∩   | - 1     | 20.0 U    | 2.0 U   | 2.0 U   |
| 0  | 11/28/1997  | soil   | 8 TO 10   | 4.0 U   | 16.0                        | 4.0  | 164.0  | 17580 0 | 1 1740  | 0.6   | 7.0       | 442.0       | 3.0     |         | 25.0 11   | 101.0   | 0.0     |
|  | 11/28/1997  | Т  | 18 TO 20  | 17.0 11   | L                           |  | 17.0   |         | 0 00    | 200   |           | 24          | 2000    |         | - 1       | 0.00    |         |
|  | 12/01/1998  | lios   | 28 TO 30  | 40 11   | 0 0 0                       | 0.4  | 0.4  | 200     | 40.0    | 3.0   | 0.00      | 7           | 3.0     | 2000    | 26.0      | 12.0    | 0.0     |
| Notes:   |   | 1  |   |   | 25                          | 2  |  |         | Q.f     | 3.0   |           | 0.01        | 3.0     |         | Z3.0 U    | 3:0     | 3.0     |
| - The analyte w<br>- The compoun<br>- The analyte w. | U . The analyte was analyzed for but not detected. The associated numeric value is at or below the MDI. D . The compound was found in analysis at a secondary offend rador. D . The property destribing the processor of the property of the passociated numerical value is below the reporting limit. F . The analyse was positively destribined but he associated numerical value is below the reporting limit. | ut not detec<br>analysis ar<br>ified but the | cted. The as<br>t at a second<br>9 associted r. | sociated nume<br>lary dilution fac<br>numerical value | aric value is at or<br>tor. | s at or below the MDL.<br>the reporting limit. |  |         |         |       |           |             |         |         |           |         |         |
| - Concentration<br>- The analyte was - Value was obt | E - Concentration exceeded the calibration range of the instrument.  B. The analyte was found in the associted blank, as well as in the sample.  I. Value was obtained from a 125,000 dilution  | ibration rar<br>socited blar<br>000 dilution | nge of the in:<br>nk, as well a:<br>n           | strument.<br>s in the sample                          | af.                         |  |  |         |         |       |           |             |         |         |           |         |         |
| & - Value was obtained<br>all results are in mg/l    | & - Value was obtained from a 1:1000 dilution all results are in ma/l   | 00 dilution.                                 |   |   |                             |  |  |         |         |       |           |             |         |         |           |         |         |
|  |   |  |   |   |                             |  |  |         |         |       |           |             |         |         |           |         |         |

# 152.0 10.0 KELLY AIR FORCE BASE VOC SOIL RESULTS

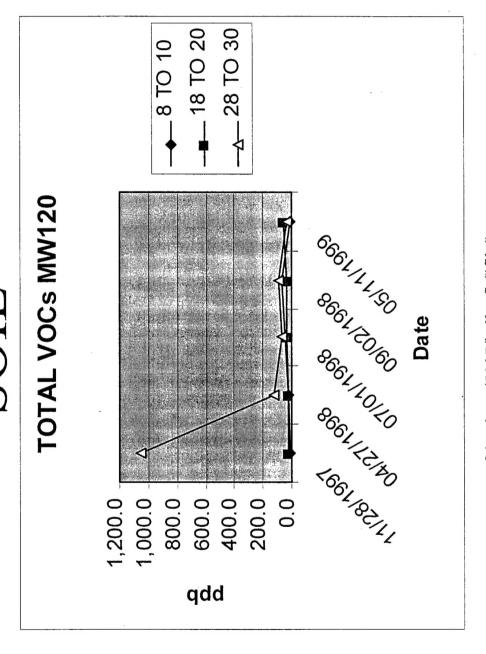
| Sample ID:         | Date<br>Analyzed: | Matrix<br>Soil or | Depth    | 4-Chloro-<br>toluene | 1,3,5-Tri-<br>methyl- | Tert-butyl<br>benzene | 1,2,4-Tri-<br>methyl- | Sec-butyl<br>benzene | 1,3-Di-<br>chloro- | 4-Isoproyf-<br>totuene | 1,4-Di-<br>chloro | 1,2-Di-<br>chloro- | n-Butyl-<br>benzene | 1,2-Di-<br>bromo-3- | 1,2,4-Tri-<br>chloro- | Hexa-<br>chloro- | Naphtha-<br>Iene | 1,2,3-Tri-<br>chloro- | Total   |
|--------------------|-------------------|-------------------|----------|----------------------|-----------------------|-----------------------|-----------------------|----------------------|--------------------|------------------------|-------------------|--------------------|---------------------|---------------------|-----------------------|------------------|------------------|-----------------------|---------|
| MW-007             |                   |                   |          |                      |                       |                       | Pilotion              |                      | Delizere           |                        | allazilan         | allezilen          |                     | allolopiopalle      | Delicelle             | Datadiene        |                  | Delizelle             |         |
| (renamed SB-123)   | 12/01/1997        | soil              | 8 TO 10  | 17.0 U               | U 71                  | 40.0                  | 40.0                  |                      |                    | 1                      | 1                 |                    | 28.0                |                     | 11.0                  | 1                | 26.0 D           | 11.0 U                |         |
| (renamed SB-130)   | 04/28/1998        | soil              | 8 TO 10  |                      |                       | 39.0 U                | 91,096.0              | D 993.0 D            | 14,466.0 FD        | 29,635.0 D             | 63,202.0 D        | 367,612.0 D        | 28.0                | U 56.0 U            | 204.0 D               | 28.0 U           | 39,972.0 D       | 35.0 D                | 1,107,8 |
| (renamed SB-136)   | 07/01/1998        | Soll              | 0 CT 0   | 3.0                  |                       | 0.0                   | 0.00                  | - 1                  |                    |                        | - 1               |                    | 0.0                 |                     | 20                    | - 1              | 200              | 20 0                  |         |
| (renamed SB-185)   | 05/11/1999        | Sos               | 8 TO 10  | 3.0                  | 3.0 U                 | 7.0                   | 2.0                   |                      |                    |                        |                   |                    | 0.00                | İ                   |                       | - 1              | 2.6              | 2000                  |         |
| (renamed SB-123)   | 12/01/1997        | soil              | 18 TO 20 | 1                    | 3.0                   | 1                     | 8.0                   | 1                    |                    | 1                      | 1                 | 68.0               | 0.9                 | 1                   | 2.0                   | 1                | 18.0             | 2.0 U                 | 1.5     |
| (renamed SB-130)   | 04/28/1998        | soil              | 18 TO 20 | 4.0 U                | l I                   | 16.0                  | 137.0                 |                      |                    |                        |                   | 109.0              |                     | 13.0                | 3.0                   |                  | 48.0             | 3.0 U                 | 5,8     |
| (renamed SB-136)   | 07/01/1998        | soil              | 18 TO 20 |                      | 4.0 U                 | 8.0                   | 8.0                   |                      |                    | 1                      | 2.0 U             | 2.0 U              |                     | 12.0                | 2.0                   |                  | 2.0 U            | 2.0 U                 |         |
| (renamed SB-142)   | 09/02/1998        | soil              | 18 TO 20 |                      | - 1                   | 8.0                   | 8.0                   | 1 1                  |                    |                        |                   | 2.0 U              |                     | 12.0                | 2.0                   |                  | 2.0 U            | 2.0 U                 |         |
| (renamed SB-185)   | 05/11/1999        | sorl              | 18 TO 20 | - 1                  | - 1                   | 7.0                   | 7.0                   | - 1                  |                    |                        |                   | 3.5                |                     | 10.0                | 2.0                   |                  | 2.0 U            | 2.0 U                 |         |
| (renamed SB-123)   | 11/28/1997        | soil              | 28 TO 30 | D :                  | D 4.0 U               | 0.6                   | 7.0                   | F 4.0 F              |                    | 3.0 F                  |                   | 28.0               |                     |                     | 4.0                   |                  |                  | 6.0                   | 1,9     |
| (renamed SB-130)   | 04/28/1998        | SOI               | 28 10 30 | 4                    | - (                   | 43.0                  | 7,508.0               | - 1                  |                    | - 1                    | - 1               | 5,503.0 D          |                     | 61.0                | 12.0                  | - 1              |                  | 12.0 U                | 147,8   |
| (renamed SB-136)   | 8861/10//0        | SOIL              | 28 10 30 | 0.4                  | 0.4                   | - 1                   | 0.6                   | - 1                  |                    | - [                    | 3.0 U             | 39.0               |                     | 13.0                | 3.0                   | - 1              | - 1              | 3.0 □                 |         |
| (renamed SB-142)   | 09/02/1998        | 200               | 28 TO 30 | 0.4.6                | 3.0                   | 0.0                   | 2.0                   | - 1                  |                    | - 1                    |                   | 2.0 U              |                     | 12.0                |                       | - 1              | 2.0 U            | 2.0                   |         |
| MM/4.119           | 200               | 5                 | 200      | 2                    | 25                    | 1                     | 0.7                   | - 1                  |                    | - [                    | Z.U U             | 3:0                | 0.0                 | П                   | 0.7                   |                  | - 1              | 2.0 0                 |         |
|                    | 12/01/1998        | 1                 | 8 TO 10  | 17.0 U               | U 71                  | 39.0 U                | 39.0                  | 139.0                | 34 []              | 34.0                   | 11.0              | 25 034 0 D         | 28.0                | 58.0                |                       | - 1              | 8 872 0          | 110 11                | 36.0    |
| (renamed SB-129)   | 04/27/1998        | Soil              | 8 TO 10  | 17.0 U               | 9.430.0               |                       | 20.453.0              | 478.0 D              | 35.0 0             | 7.070.0                | 842 0 D           | 24.060.0           | 734.0               | 580                 |                       |                  | 7,6210           | 110 FD                | 76.22   |
| (renamed S8-135)   | 07/01/1998        | soil              | 8 TO 10  | 3.0 U                | 3.0 U                 | 8.0 U                 | 8.0                   | U 8.0 U              | 7.0 U              | 0.200                  | 20 0              | 5.0                | 6.0                 | 110 11              | 1                     |                  | 5.0              | 200                   | 2       |
| (renamed SB-141)   | 09/02/1998        | soil              | 8 TO 10  | U 0.71               | 96.0                  | 39.0 U                | 129.0                 | 39.0                 | 27.0 J             | 38.0                   | 11.0 U            | 303.0              |                     |                     |                       | 1                | 135.0            | 11.0 U                | 7       |
| (renamed SB-184)   | 05/11/1999        | soil              | 8 TO 10  |                      | 307.0 D               |                       | 66.4                  |                      |                    |                        | 53.9              | 551.0 D            | 1                   |                     | 1                     |                  | 294.0 D          | 2.0 U                 | 1,9     |
|                    | 12/01/1998        | soil              | 18 TO 20 | 4.0 U                |                       |                       | 0.6                   | 1                    | 1                  | 1                      | 1                 | 65.0               | 1                   | 12.0                | 3.0                   | 1                | 9.0              | 3.0                   | 4       |
| (renamed S8-129)   | 04/27/1998        | soil              | 18 TO 20 | 4.0 U                | 4.0 U                 | 8.0 U                 | 3.0                   | F 8.0 U              | U U7               | 7.0 U                  | 2.0 U             | 16.0               | 6.0                 | U 12.0 U            | 2.0 U                 | 6.0 U            | 10.0             | 2.0 U                 |         |
| (renamed SB-135)   | 07/01/1998        | soil              | 18 TO 20 |                      | 4.0 U                 | 8.0                   | 8.0                   |                      |                    |                        |                   | 3.0                | 1 1                 | 12.0                | 2.0                   |                  | 2.0 U            | 2.0 U                 |         |
| (renamed SB-141)   | 09/02/1998        | soil              | 18 TO 20 | Į.                   | - 1                   |                       | 8.0                   |                      | - 1                |                        |                   | 8.0                |                     | 12.0                | 2.0                   |                  | 2.0 J            | 2.0 U                 |         |
| (renamed SB-184)   | 05/11/1995        | soil              | 18 10 20 | 3.0 U                | - 1                   | 7.0                   | 10.0                  | - 1                  | - 1                | - 1                    | - 1               | 32.4               | - 1                 | 10.0                | 2.0                   | - 1              | 11.9             | 2.0 U                 | σ.      |
| 000                | 12/01/1998        | Soll              | 28 10 30 | 16.0 U               | 16 0                  | 38.0                  | 38.0                  | - 1                  |                    |                        |                   | 9.0 FD             |                     | 54.0                | 11.0                  |                  | 20.0 D           | 11.0<br>U             | +       |
| (renamed Se-129)   | 04/2//1990        | 100               | 28 TO 30 | 3.0                  | 3.0                   | 0.0                   | 0.7                   | -                    | - 1                | - 1                    | 200               | 0.71               | - 1                 | 17.0                | 2.0                   |                  | 0.7              | 0.20                  |         |
| (renamed SB-141)   | 09/02/1998        | soil              | 28 TO 30 | 3.0                  |                       | 2.0                   | 2.0                   |                      | 20.7               |                        |                   | 12.0               |                     | 110                 | 200                   |                  | 20.00            | 20.0                  |         |
| (renamed SB-184)   | 05/11/1999        | soil              | 28 TO 30 |                      | 6.5                   | 7.0 07                | 12.9                  | 11.1                 | 13.1               | 0.2                    |                   | 99                 | - 1                 |                     |                       |                  | 2 2              | 2000                  | 21      |
| MW-120             |                   |                   |          |                      |                       |                       |                       |                      |                    |                        | 200               |                    |                     |                     | 1                     |                  |                  | 2                     |         |
|                    | 11/28/1997        | soil              | 9 TO11   | 4.0 U                | 4.0 U                 | U 8.0 U               | 8.0                   | 1                    |                    | 1                      | -                 | 2.0 U              |                     | 12.0                | 2.0                   | 1                | 2.0 U            | 2.0 U                 |         |
| (renamed SB-127)   | 04/27/1998        | soil              | 8 TO 10  | 3.0 U                | 3.0 U                 | U 0.8                 | 3.0                   |                      |                    |                        | 1                 | 5.0                | 1                   | 11.0                | 2.0                   | 1                | 2.0              | 2.0 U                 |         |
| (renamed SB-133)   | 07/01/1998        | soil              | 8 TO 10  | 4.0 U                |                       |                       | 8.0                   |                      | 1                  |                        | 1                 | 2.0 U              | 1 1                 | 12.0                | 2.0                   | 1 1              | 1                | 2.0                   |         |
| (renamed SB-139)   | 09/02/1998        | soil              | 8 TO 10  | 3.0                  |                       | 8.0                   | 8.0                   |                      |                    | - 1                    |                   | 2.0 U              | - 1                 |                     | 2.0                   | - 1              |                  | 2.0 U                 |         |
| (renamed SB-182)   | 11/28/1007        | lios<br>lios      | 18 TO 10 | 0.00                 | 3.00                  | 0.0                   | 0.0                   | - 1                  |                    | - 1                    | - 1               | 2.0 0              | - 1                 | 10.0                | 2.0                   | - 1              | 2.0 0            | 0.00                  |         |
| (ransmard SB. 127) | 04/28/1998        | i i i             | 18 TO 20 | 200                  | 1                     | 000                   | 0.0                   |                      |                    |                        | - 1               | 7.0                |                     | 2 5                 | 0.0                   | - 1              |                  | 0.00                  |         |
| (renamed SB-133)   | 07/01/1998        | soil              | 18 TO 20 | 3.0 0                |                       | 8.0 U                 | 8.0                   |                      | 0.07               | - 1                    | 20 0              | 2.0 U              | 1                   | 11.0                | 20                    | 0.09             | -1               | 2.0                   |         |
| (renamed SB-139)   | 09/02/1998        | soil              | 18 TO 20 | 3.0 U                | 3.0 U                 |                       | 8.0                   |                      | 1                  |                        | 1                 | 2.0 U              |                     | 12.0                | 2.0                   | 1                | 2.0 U            | 2.0 U                 |         |
| (renamed SB-182)   | 05/11/1999        | soil              | 18 TO 20 | 3.0 U                |                       | 7.0                   | 7.0                   |                      | 1 1                |                        | 1                 | 2.0 U              |                     | 10.0                | 2.0                   | 1 1              |                  | 2.0 U                 |         |
|                    | 11/27/1998        | soil              | 28 TO 30 | 4.0 U                | 4.0 U                 | 0.6                   | 0.6                   |                      | 8.0                | 1 1                    |                   | 39.0               |                     | 13.0                | 3.0                   | 1 1              | ı                | 3.0 U                 | 1,0     |
| (renamed SB-127)   | 04/2//1998        | Soll              | 28 10 30 |                      |                       | 0.6                   | 13.0                  |                      | 0.07               | - 1                    |                   | 19.0               |                     | 12.0                | 2.0                   | - 1              | 24.0             | 2.0 F                 | -       |
| (renamed SB-133)   | 07/01/1998        | Soll              | 28 TO 30 | 0.04                 | 0.4.0                 | 0.00                  | 0.0                   | 0.6                  | 0.8                | 0.80                   | 3.0               | 0.4                | 0.9                 | 13.0 0              | 0.00                  | 0.9              | 0.00             | 0.00                  |         |
| (renamed SB-182)   | 05/11/1999        | soil              | 28 TO 30 | 1                    | 3.0 U                 | 7.0                   | 7.0                   |                      | 0.9                |                        | 20 0              | 3.0                |                     | 10.0                | 2.0                   | 200              | 20 0             | 2000                  | 2.0     |
|                    | 11/28/1998        | soil              | 39 TO 40 | 4.0 U                |                       | 8.0                   | 9.0                   |                      | U U7               | 1                      |                   | 2.0 U              | 1                   | 12.0                | 2.0                   | 1                | 2.0 U            | 2.0 U                 |         |
| MW-121             |                   |                   |          |                      | 1                     |                       |                       |                      | 1 1                | 1                      |                   |                    |                     | 1                   | 1 }                   |                  |                  |                       |         |
|                    | 11/28/1997        | soil              | 8 TO 10  | 0.4                  | U 0.4                 | 7,620.0               | 21,088.0              | D 202.0              |                    | 8.0 U                  | G 0.655,0 D       |                    | 0.9                 |                     |                       | 0.9              | 7,744.0 D        | 7.0                   | 95,3    |
| (renamed S8-128)   | 04/27/1998        | Soil              | 8 TO 10  |                      | 4.0 0                 | 8.0 U                 | 8.0                   | U 8.0 U              | - 1                | - 1                    | 2:0 U             | 2.0 U              | 9.0                 | J 12.0 U            | 2.0 U                 | 6.0              | 1.0              | 2.0 U                 |         |
| (renamed SB-134)   | 07/101/1986       | Sol               | 8 10 10  | - 1                  | 11,593.0              |                       | 25,659.0              | - 1                  | - 1                | 8,915.0                | 9,765.0           |                    | 8,529.0             |                     |                       | 762.0            | 6,928.0          | 305.0 U               | 154,1   |
| (renamed SB-140)   | 05/11/1999        | Soil              | 8 10 10  | 15.0 U               | 3.630.0 D             | 252.0                 | 8 300 0               | 17.0 J               | 29.0               | 54.U                   | 105.0             | 787.0              | 29.0                | - 1                 | - 1                   | 25.0             | 142.0            | 12.0 0                | 777 5   |
|                    | 11/28/1997        | Soil              | 18 TO 20 |                      | 1                     | L                     | 254.0                 |                      |                    | 7.07                   | 2,000.0           | 138.0              | 909                 | 1                   |                       | -                | 216.0            | 20 0                  | 12.5    |
| (renamed SB-128)   | 04/27/1998        | Soil              | 18 TO 20 |                      | 4.0 U                 |                       | 8.0                   |                      | 1                  | 707                    | 200               | 20.01              | 0 0                 |                     |                       | 1                | 20 0             | 20 0                  | 2       |
| (renamed SB-134)   | 07/01/1998        | soil              | 18 TO 20 |                      | 4.0 U                 |                       | 100.0                 | 1                    | 1                  | 32.0                   | 32.0              |                    | 0.9                 |                     | 1                     | -                | 149.0            | 2.0 U                 | 9       |
| (renamed SB-140)   | 09/02/1998        | SOIL              | 18 TO 20 | 17.0 U               | 150.0                 |                       | 379.0                 | 1 1                  | 1                  | 107.0                  | 12.0 U            | 135.0              | 29.0                |                     | 1                     |                  | 251.0            | 12.0 U                | 1,3     |
| (renamed SB-183)   | 05/11/1999        | Soil              | 18 TO 20 | 3.0 U                | 320.0 D               | 7.0                   | 766.0                 | 1                    | 1 1                | 12.0                   | 103.0 D           | 481.0              | 11.9                | 1                   | 1 [                   | 1 1              | 356.0 D          | 2.0 U                 | 6,3     |
|                    | 11/28/1997        | Soil              | 28 TO 30 |                      | 4.0 U                 |                       | 63.0                  | 6.0 F                | 11.0               | 8.0 U                  | 20.0              | 26.0               | Ω9                  | J 13.0 U            | 1.0 F                 | 0.0              | 56.0             | 3.0                   | 5,8     |
| (renamed SB-134)   | 07/01/1998        | SOI               | 28 10 30 | 493.0                | 1,910.0               | 1,151.0               | 4,431.0               | 1,151.0 U            | 987.0              | 1,564.0                | 753.0             | 329.0 U            | 822.0               | -                   |                       |                  | 2,013.0          | 329.0 U               | 37,0    |
| (renamed SB-140)   | 0001111000        | 200               | 20 00 00 |                      | 99.0                  | - 1                   | 1,40.0                | 0.21                 | 0.0                | 32.0                   | 3.0 0             | 0.70               | ٥                   | 13.0                |                       | - 1              | 0.67             | 0.0                   | 4       |

## MW-007 TOTAL VOCS SOII





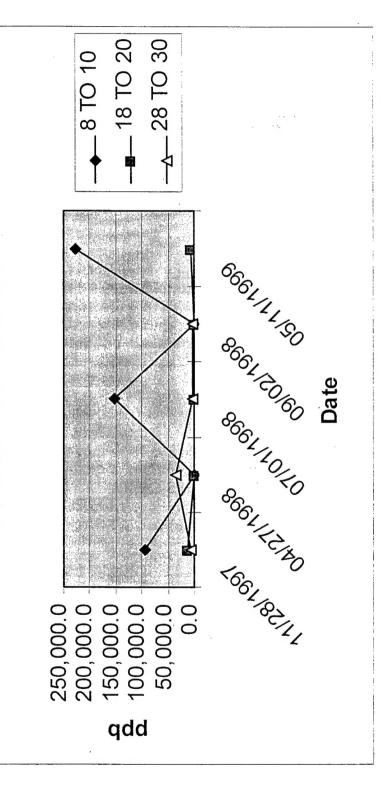
## MW-120 TOTAL VOCS SOII



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### MW-121 TOTAL VOCS SOIL

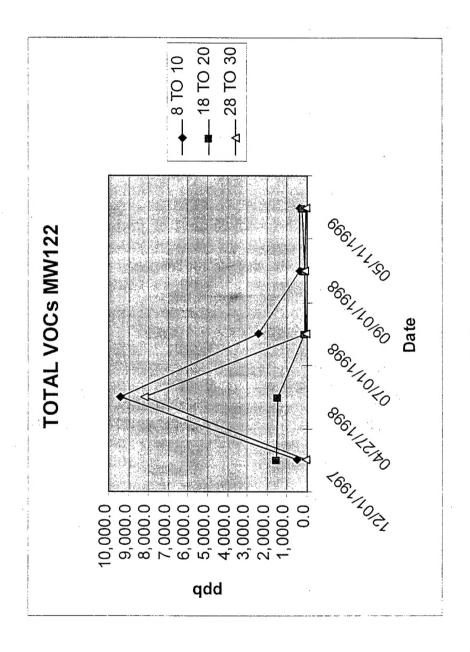
#### TOTAL VOCs MW121



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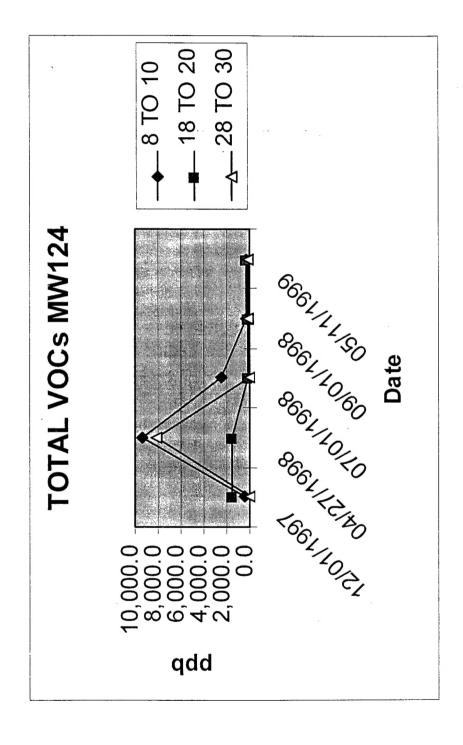
01/23/2000

### MW-122 TOTAL VOCS SOII



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### MW-124 TOTAL VOCS SOII



f:/projects/5007/kellyafb/"file"

01/23/2000